

Prof. BÜLENT MERTOĞLU

Personal Information

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Biography

Bulent Mertoglu is a professor of bioengineering department. His research activities have been focused on environmental biotechnology and molecular ecology. He has a wide and rich experience on solid waste management, wastewater and leachate treatment, and molecular ecology. He has published more than 30 research papers in SCI journals and more than 20 conference proceedings and abstracts. He has been taking many national projects supported by Marmara University and the Scientific and Technical Research Council of Turkey. He has also provided technical assistance to support the Central Finance and Contracts Unit (CFCU) and the Ministry of Environment and Forest.

Research Areas

Environmental Engineering, Biomedical Engineering

Academic Titles / Tasks

Professor, Marmara University, Faculty of Engineering, Bioengineering, 2015 - Continues

Associate Professor, Marmara University, Faculty of Engineering, Bioengineering, 2009 - 2015

Assistant Professor, Marmara University, Faculty of Engineering, Bioengineering, 2007 - 2009

Assistant Professor, Marmara University, Faculty of Engineering, Chemical Engineering, 2006 - 2007

Research Assistant, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, 2000 - 2005

Professional Experience

Coordinator of Faculty Training Program, Marmara University, Faculty of Engineering, Bioengineering, 2014 - Continues

Assistant Director of the Institute, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, 2010 - 2013

Courses

Bioengineering Project, Under Graduate, 2019 - 2020

Bioreaction Engineering, Under Graduate, 2019 - 2020

Seminar, Post Graduate, 2019 - 2020

Tehlikeli Madde ve Atık Yönetimi, Doctorate, 2019 - 2020

Advising Theses

- MERTOĞLU B., Fakülte binalarının iş sağlığı ve güvenliğine uygun şekilde yapılandırılması: bir devlet üniversitesi örneği, Post Graduate, E.Şentürk(Student), 2019
- MERTOĞLU B., Güvenlik kültürünün iki farklı ülkede karşılaştırılması, Post Graduate, S.Temur(Student), 2019
- Mertoğlu B., Investigation of the effects of bisphenol a and nonylphenol on the transcriptional profiles of *Saccharomyces cerevisiae* genome, Doctorate, C.BEREKETOĞLU(Student), 2017
- Sarıyar Akbulut B., MERTOĞLU B., Transcriptional changes in *Escherichia coli* upon treatment with (-)-roemerine, Post Graduate, D.AYYILDIZ(Student), 2016
- Mertoğlu B., Investigation of the impact of urbanization on climate and air quality: A case study over Turkey, Doctorate, H.ÖZDEMİR(Student), 2013
- Mertoğlu B., Investigation of heavy metals and ammonia inhibition on anaerobic reactor, Post Graduate, B.YÜZER(Student), 2012
- Mertoğlu B., Characterization of landfill leachates in turkey and assessment of treatment alternatives, Doctorate, D.AKGÜL(Student), 2012
- Mertoğlu B., Quantification of sensitive nitrogen converting organisms in landfills by using molecular techniques, Post Graduate, Ç.ALİYAZICIOĞLU(Student), 2011
- Mertoğlu B., Treatment alternatives for reverse osmosis concentrate of landfill leachate, Post Graduate, S.YİĞİT(Student), 2010

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

- I. **Nitrogen Converters in Various Landfill Leachates**
AKGÜL D., Yuzer B., Yapsakli K., MERTOĞLU B.
POLISH JOURNAL OF ENVIRONMENTAL STUDIES, vol.27, pp.1941-1948, 2018 (Journal Indexed in SCI)
- II. **Genome reprogramming in *Saccharomyces cerevisiae* upon nonylphenol exposure**
Bereketoglu C., ARĞA K. Y. , Eraslan S., MERTOĞLU B.
PHYSIOLOGICAL GENOMICS, vol.49, pp.549-566, 2017 (Journal Indexed in SCI)
- III. **Transcriptomic analysis displays the effect of (-)-roemerine on the motility and nutrient uptake in *Escherichia coli***
Ayyildiz D., ARĞA K. Y. , Avci F. G. , ALTINIŞIK KAYA F. E. , Gurer C., Toplan G. G. , KAZAN D., Wozny K., Bruegger B., MERTOĞLU B., et al.
CURRENT GENETICS, vol.63, pp.709-722, 2017 (Journal Indexed in SCI)
- IV. **Analysis of transcriptional profiles of *Saccharomyces cerevisiae* exposed to bisphenol A**
Bereketoglu C., ARĞA K. Y. , Eraslan S., MERTOĞLU B.
CURRENT GENETICS, vol.63, pp.253-274, 2017 (Journal Indexed in SCI)
- V. **Anammox-zeolite system acting as buffer to achieve stable effluent nitrogen values**
Yapsakli K., KALKAN AKTAN Ç., MERTOĞLU B.
BIODEGRADATION, vol.28, pp.69-79, 2017 (Journal Indexed in SCI)
- VI. **Investigating the toxic effects of nonylphenol on *Saccharomyces cerevisiae***
Bereketoglu C., ARĞA K. Y. , MERTOĞLU B.
NEW BIOTECHNOLOGY, vol.33, 2016 (Journal Indexed in SCI)
- VII. **Preparation of poly(3-hydroxybutyrate-co-hydroxyvalerate) films from halophilic archaea and their potential use in drug delivery**
DANIŞ Ö., OGAN A., Tatlican P., ATTAR A., ÇAKMAKÇI E., MERTOĞLU B., BİRBİR M.
EXTREMOPHILES, vol.19, pp.515-524, 2015 (Journal Indexed in SCI)
- VIII. **Spatial and temporal analysis of black carbon aerosols in Istanbul megacity**
ÖZDEMİR H., Pozzoli L., Kindap T., DEMİR G., MERTOĞLU B., Mihalopoulos N., Theodosi C., Kanakidou M., Im U., Ünal A.
SCIENCE OF THE TOTAL ENVIRONMENT, vol.473, pp.451-458, 2014 (Journal Indexed in SCI)
- IX. **Treatment of landfill leachate using UASB-MBR-SHARON-Anammox configuration**

- AKGÜL D., KALKAN AKTAN Ç., Yapsakli K., MERTOĞLU B.
BIODEGRADATION, vol.24, pp.399-412, 2013 (Journal Indexed in SCI)
- X. **Inhibitory effects of free ammonia on Anammox bacteria**
KALKAN AKTAN Ç., Yapsakli K., MERTOĞLU B.
BIODEGRADATION, vol.23, pp.751-762, 2012 (Journal Indexed in SCI)
- XI. **Solidification/stabilization of landfill leachate concentrate using different aggregate materials**
Hunce S. Y., AKGÜL D., DEMİR G., MERTOĞLU B.
WASTE MANAGEMENT, vol.32, pp.1394-1400, 2012 (Journal Indexed in SCI)
- XII. **Case study of PM pollution in playgrounds in Istanbul**
Ozdemir H., MERTOĞLU B., DEMİR G., Deniz A., Toros H.
THEORETICAL AND APPLIED CLIMATOLOGY, vol.108, pp.553-562, 2012 (Journal Indexed in SCI)
- XIII. **Identification and quantitative evaluation of nitrogen-converting organisms in a full-scale leachate treatment plant**
Yapsakli K., Aliyazicioglu C., MERTOĞLU B.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.92, pp.714-723, 2011 (Journal Indexed in SCI)
- XIV. **Evaluation of Biological Activated Carbon (BAC) process in wastewater treatment secondary effluent for reclamation purposes**
Kalkan C., Yapsakli K., MERTOĞLU B., Tufan D., Saatci A.
DESALINATION, vol.265, pp.266-273, 2011 (Journal Indexed in SCI)
- XV. **Investigation of nitrogen converters in membrane bioreactor**
Ozdemir B., MERTOĞLU B., Yapsakli K., Aliyazicioglu C., Saatci A., Yenigun O.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.46, pp.500-508, 2011 (Journal Indexed in SCI)
- XVI. **CHARACTERIZATION OF LANDFILL LEACHATES IN TURKEY**
AKGÜL D., MERTOĞLU B., Yuzer B.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.20, pp.2638-2642, 2011 (Journal Indexed in SCI)
- XVII. **Examination of Bacterial and Archaeal Populations in Salt, Salted and Soaked Hide and Soak Liquors via Fluorescent In Situ Hybridization**
Berber D., BİRBİR M., MERTOĞLU B.
JOURNAL OF THE SOCIETY OF LEATHER TECHNOLOGISTS AND CHEMISTS, vol.94, pp.259-261, 2010 (Journal Indexed in SCI)
- XVIII. **Identification of nitrifiers and nitrification performance in drinking water biological activated carbon (BAC) filtration**
Yapsakli K., MERTOĞLU B., ÇEÇEN F.
PROCESS BIOCHEMISTRY, vol.45, pp.1543-1549, 2010 (Journal Indexed in SCI)
- XIX. **Monitoring of population shifts in an enriched nitrifying system under gradually increased cadmium loading**
MERTOĞLU B., SEMERCİ N., Guler N., ÇALLI B., ÇEÇEN F., Saatci A. M.
JOURNAL OF HAZARDOUS MATERIALS, vol.160, pp.495-501, 2008 (Journal Indexed in SCI)
- XX. **Long-term assessment of nitrification in a full-scale wastewater treatment plant**
Mertoglu B.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.43, pp.538-546, 2008 (Journal Indexed in SCI)
- XXI. **Effects of insufficient air injection on methanogenic Archaea in landfill bioreactor**
Mertoglu B., Calli B., Guler N., Inanc B., Inoue Y.
JOURNAL OF HAZARDOUS MATERIALS, vol.142, pp.258-265, 2007 (Journal Indexed in SCI)
- XXII. **Extremely halophilic Archaea from Tuz Lake, Turkey, and the adjacent Kaldirim and Kayacik salterns**
Birbir M., Calli B., Mertoglu B., Bardavid R. E., Oren A., Ogmen M. N., Ogan A.
WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.23, pp.309-316, 2007 (Journal Indexed in SCI)
- XXIII. **Evaluation of in situ ammonia removal in an aerated landfill bioreactor**
Mertoglu B., Calli B., Inanc B., Ozturk I.

- PROCESS BIOCHEMISTRY, vol.41, pp.2359-2366, 2006 (Journal Indexed in SCI)
- XXIV. **Comparison of long-term performances and final microbial compositions of anaerobic reactors treating landfill leachate**
Calli B., Mertoglu B., Roest K., Inanc B.
BIORESOURSE TECHNOLOGY, vol.97, pp.641-647, 2006 (Journal Indexed in SCI)
- XXV. **Identification of prevalent microbial communities in a municipal solid waste landfill**
Calli B., Durmaz S., Mertoglu B.
WATER SCIENCE AND TECHNOLOGY, vol.53, pp.139-147, 2006 (Journal Indexed in SCI)
- XXVI. **Methanogenic diversity in anaerobic bioreactors under extremely high ammonia levels**
Calli B., Mertoglu B., Inanc B., Yenigun O.
ENZYME AND MICROBIAL TECHNOLOGY, vol.37, pp.448-455, 2005 (Journal Indexed in SCI)
- XXVII. **Landfill leachate management in Istanbul: applications and alternatives**
Calli B., Mertoglu B., Inanc B.
CHEMOSPHERE, vol.59, pp.819-829, 2005 (Journal Indexed in SCI)
- XXVIII. **Effects of high free ammonia concentrations on the performances of anaerobic bioreactors**
Calli B., Mertoglu B., Inanc B., Yenigun O.
PROCESS BIOCHEMISTRY, vol.40, pp.1285-1292, 2005 (Journal Indexed in SCI)
- XXIX. **Community changes during start-up in methanogenic bioreactors exposed to increasing levels of ammonia**
Calli B., Mertoglu B., Inanc B., Yenigun O.
ENVIRONMENTAL TECHNOLOGY, vol.26, pp.85-91, 2005 (Journal Indexed in SCI)
- XXX. **Comparative analysis of nitrifying bacteria in full-scale oxidation ditch and aerated nitrification biofilter by using fluorescent in situ hybridization (FISH) and denaturing gradient gel electrophoresis (DGGE)**
Mertoglu B., Calli B., Girgin E., Inanc B., Ozturk I.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.40, pp.937-948, 2005 (Journal Indexed in SCI)
- XXXI. **Enzyme characteristics of extremely halophilic archaeal community in Tuzkoy Salt Mine, Turkey**
Birbir M., Ogan A., Calli B., Mertoglu B.
WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.20, pp.613-621, 2004 (Journal Indexed in SCI)
- XXXII. **Molecular analysis of microbial communities in nitrification and denitrification reactors treating high ammonia leachate**
Calli B., Tas N., Mertoglu B., Inanc B., Ozturk I.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.38, pp.1997-2007, 2003 (Journal Indexed in SCI)
- XXXIII. **Investigation of variations in microbial diversity in anaerobic reactors treating landfill leachate**
Calli B., Mertoglu B., Tas N., Inanc B., Yenigun B., Yenigun O., Ozturk I.
WATER SCIENCE AND TECHNOLOGY, vol.48, pp.105-112, 2003 (Journal Indexed in SCI)
- XXXIV. **Toxicity assessment on combined biological treatment of pharmaceutical industry effluents**
İnanç B., ÇALLI B., ALP K., ÇİNER F., MERTOĞLU B., ÖZTÜRK İ.
WATER SCIENCE AND TECHNOLOGY, vol.45, pp.135-142, 2002 (Journal Indexed in SCI Expanded)
- XXXV. **Toxicity assessment on combined biological treatment of pharmaceutical industry effluents**
Inanc B., Calli B., Alp K., Ciner F., Mertoglu B., Ozturk I.
WATER SCIENCE AND TECHNOLOGY, vol.45, pp.135-142, 2002 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Treatment of Landfill Leachate by Advanced Oxidation Processes**
Koçak S., Güney C., Tarkın B., Kirtman E. Ö. , AKGÜL D., MERTOĞLU B.
Marmara Fen Bilimleri Dergisi, 2013 (Other Refereed National Journals)

- II. **Effect of High Ammonia Concentration on UASB Reactor Treating Sanitary Landfill Leachate**
YÜZER B., AKGÜL D., MERTOĞLU B.
Marmara Fen Bilimleri Dergisi, 2012 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **Hydrazine Production via Anammox Process**
BAKIRCI K., MERTOĞLU B.
2nd International Conference on Pollutant Toxic Ions and Molecules, PTIM2017, 6 - 09 November 2017
- II. **Hydrazine Production via Anammox Process**
BAKIRCI K., MERTOĞLU B.
2nd International Caparica Conference on Pollutant Toxic Ions and Molecules (PTİM), 6 - 09 November 2017
- III. **Identification of Anammox bacteria in landfill leachates of Turkey**
BAKIRCI K., AKGÜL D., MERTOĞLU B.
IWA World Conference on Anaerobic Digestion, 17 October 2017 - 20 October 2107
- IV. **Inhibition of Anammox by Cadmium**
Uzunhasanoğlu A. E. , KALKAN AKTAN Ç., BAKIRCI K., MERTOĞLU B.
2nd International Conference of Civil and Environmental Engineering (ICOCEE 2017), 8 - 10 May 2017
- V. **Investigating the toxic effects of nonylphenol on Saccharomyces cerevisiae**
BEREKETOĞLU C., ARĞA K. Y. , MERTOĞLU B.
17th European Congress on Biotechnology, 3 - 06 July 2016
- VI. **Investigating the toxic effects of nonylphenol on Saccharomyces cerevisiae**
BEREKETOĞLU C., ARĞA K. Y. , MERTOĞLU B.
ECB2016 - 17. European Congress on Biotechnology, 3 - 06 July 2016
- VII. **Transcriptional analysis of nonylphenol on Saccharomyces cerevisiae using DNA microarray**
BEREKETOĞLU C., ARĞA K. Y. , ERASLAN S., MERTOĞLU B.
Gene transcription in yeast: From chromatin to RNA and back, 11 - 16 June 2016
- VIII. **Enrichment of Anammox bacteria in reactor packed with Kaldnes Rings**
KALKAN AKTAN Ç., BAKIRCI K., MERTOĞLU B.
International Sustainable Water and Wastewater Management Symposium, Konya, Turkey, 26 October 2010 - 28 January 2016
- IX. **Nitrogen converters in wastewater treatment plants**
MERTOĞLU B., BAKIRCI K.
1st International Caparica Conference on Pollutant Toxic Ions and Molecules (PTİM), 2 - 04 November 2015
- X. **QUANTITATIVE EVALUATION OF NITROGEN CONVERTERS IN VARIOUS LANDFILL LEACHATES**
MERTOĞLU B., YÜZER B., AKGÜL D.
16th International Biotechnology Symposium and Exhibition, 14 - 19 September 2014
- XI. **Diversity of Extremely Halophilic Archaeal Community in Tuzköy Salt Mine in Turkey**
BİRBİR M., OGAN A., ÇALLI B., MERTOĞLU B.
Microbiologia Balkanica 2003, 3rd Balkan Conference of Microbiology 2003, İstanbul, Turkey, 10 - 13 July 2013
- XII. **Türkiye’de beyaz eşya üretiminden kaynaklanan tehlikeli atıklar**
Yazıcı B., CAN Z. S. , ÇALLI B., MERTOĞLU B., GÖKYAY O., AKGÜL D., YETİŞ Ü.
İTÜ 13. Endüstriyel Kirlenme Kontrolü Sempozyumu, Turkey, 17 - 19 October 2012
- XIII. **Türkiye’de otomotiv sektöründen kaynaklanan tehlikeli atıkların azaltılması çalışmaları**
CAN Z. S. , GÖKYAY O., ÇALLI B., MERTOĞLU B., AKGÜL D., Yazıcı B., YETİŞ Ü.
İTÜ 13. Endüstriyel Kirlenme Kontrolü Sempozyumu, Turkey, 17 - 19 October 2012
- XIV. **Investigation of Hazardous Waste Generation by Turkish Automotive Industry**
YAZICI B., CAN Z. S. , GÖKYAY O., ÇALLI B., MERTOĞLU B., AKGÜL D., YETİŞ Ü.
EurAsia Waste Management Symposium, 14 - 16 November 2011
- XV. **Hazardous Waste Generation From Household Appliances Industry in Turkey**

- YAZICI B., ÇALLI B., MERTOĞLU B., CAN Z. S., GÖKYAY O., AKGÜL D., YETİŞ Ü.
EurAsia Waste Management Symposium, 14 - 16 November 2011
- XVI. **Samsun katı atık düzenli depo sahası sızıntı suyu karakterizasyonu**
YÜZER B., AKGÜL D., MERTOĞLU B.
9. Ulusal Çevre Mühendisliği Kongresi, Samsun, Turkey, 5 - 08 October 2011
- XVII. **Characterization of Landfill Leachates in Turkey**
AKGÜL D., YÜZER B., MERTOĞLU B.
International Sustainable Water and Wastewater Management Symposium, 26 - 28 October 2011
- XVIII. **Characterization of dissolved organic matter in landfill leachate by fluorescence spectroscopy**
MERTOĞLU B., BAKIRCI K., AKGÜL D., YÜZER B.
Fourth IWA Specialty Conference Natural Organic Matter: From Source to Tap and Beyond, 27 July 2011
- XIX. **Effects of reclaimed water irrigation in soil properties and crop**
KALKAN AKTAN Ç., BAKIRCI K., MERTOĞLU B.
International Conference on Environmental Science and Technology, ICOEST 2014, 14 May 2014 - 17 October 2010
- XX. **Impacts of Reclaimed Water Irrigation on Heavy Metal Distribution in Soil Properties and Crop**
KALKAN AKTAN Ç., BAKIRCI K., MERTOĞLU B.
11 th International Conference on Hydrosience and Engineering, ICHE 2014, Hamburg, Germany, 28 September 2014 - 02 October 2010
- XXI. **Tertiary treatment of Paşaköy Advanced Wastewater Treatment Plant by biological activated carbon (BAC)**
BAKIRCI K., KALKAN AKTAN Ç., AKGÜL D., MERTOĞLU B.
IWA World Water Congress and Exhibition 2010, 19 - 24 September 2010
- XXII. **Co-occurrence of aerobic and anaerobic ammonium oxidizing microorganisms in landfill leachate**
AKGÜL D., Aliyazıcıoğlu Ç., YÜZER B., MERTOĞLU B.
IWA World Water Congress and Exhibition, 19 - 24 September 2010
- XXIII. **Bir katı atık depo sahasında stabilizasyona bağlı olarak görülen değişimler**
DURMAZ ŞAM S., MERTOĞLU B., YÜKSELEN M. A., ÇALLI B.
Ulusal Çevre Sempozyumu 2007, Mersin, Turkey, 18 - 21 April 2007
- XXIV. **Identification of prevalent microbial communities in a municipal solid waste landfill**
ÇALLI B., DURMAZ ŞAM S., MERTOĞLU B.
Anaerobic Digestion of Solid Waste 2005 Conference, 31 August - 02 September 2005
- XXV. **Havalandırılmalı katı atık depo sahasındaki mikrobiyal çeşitliliğin moleküler tekniklerle incelenmesi**
MERTOĞLU B., ÇALLI B., AKANYETİ İ., AKGÜL D., AKALIN N., İNANÇ B.
6. Ulusal Çevre Mühendisliği Kongresi, Turkey, 24 - 26 November 2005
- XXVI. **Comparative evaluation of methanogenic communities in psychrophilic and mesophilic UASB reactors treating domestic wastewater**
Gomec C., Eroglu V., Ozturk I., Calli B., Mertoglu B.
European Symposium on Environmental Biotechnology, Oostende, Belgium, 25 - 28 April 2004, pp.69-73

Supported Projects

Akgül D., Mertoğlu B., TUBITAK Project, Anammox Prosesinde Hidrazin Toleransı ve Metabolizmasının Araştırılması, 2019 - 2020

Akgül D., Mertoğlu B., TUBITAK Project, Nanoparçacıkların Zenginleştirilmiş Anammox Kültürü Üzerindeki İnhibisyon Etkileri, 2018 - 2020

Mertoğlu B., TUBITAK Project, Nonilfenolün Uzun Dönem (Kronik) Etkilerinin Rna Dizileme Yöntemiyle Araştırılması, 2018 - 2019

Mertoğlu B., TUBITAK Project, Zenginleştirilmiş Anammox Kültüründe Metal İnhibisyonunun Araştırılması, 2015 - 2017

Arğa K. Y., Mertoğlu B., Project Supported by Higher Education Institutions, Endokrin bozucu bileşiklerin *Saccharomyces cerevisiae* genomunun transkripsiyon profilleri üzerindeki etkilerinin moleküler metodlarla araştırılması, 2013 - 2016

Mertođlu B., TUBITAK Project, Identification of pathogens in wastewater treatment plant effluents using Real-Time PCR method, 2013 - 2015

Gökyay O., Can Z. S. , Çallı B., Mertođlu B., Akgöl D., TUBITAK Project, Türkiye de AB Çevre Mevzuatı ile uyumlu Tehlikeli Atık Yönetimi, 2009 - 2013

Çallı B., Mertođlu B., TUBITAK Project, Organik Atıksu Arıtan Mikrobiyal Yakıt Hücreleri İle Doğrudan ElektrikÜretimi, 2008 - 2011

Citations

Total Citations (WOS):1029

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