

## Assoc. Prof. Didem Okutman Taş

### Personal Information

**Email:** okutmand@itu.edu.tr

**Web:** <http://akademi.itu.edu.tr/okutmand/>

### Education Information

Doctorate, Georgia Institute Of Technology, Çevre Mühendisliği, United States Of America 2002 - 2006

Post Graduate, Georgia Institute Of Technology, Çevre Mühendisliği, United States Of America 2002 - 2005

Post Graduate, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, Turkey 1998 - 2001

Under Graduate, İstanbul Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, Turkey 1994 - 1998

### Foreign Languages

English

French, B2 Upper Intermediate

### Dissertations

Doctorate, Microbial Reductive Transformation of pentachloronitrobenzene, Georgia Institute Of Technology, Civil And Environmental Engineering, Environmental Engineering, 2006

Post Graduate, Evsel Atıksularda çökebilir KOİ ayrışmasının Deneysel İncelenmesi ve Modellenmesi, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği, 2001

### Research Areas

Technical Sciences, Environmental Engineering

### Academic Titles / Tasks

Associate Professor, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, 2011 - Continues

Assistant Professor, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, 2009 - Continues

Research Assistant, Georgia Institute Of Technology, Civil And Environmental Eng, Civil And Environmental Eng, 2002 - 2006

Research Assistant, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, 1999 - 2002

### Professional Experience

Academic Performance D. Board Member, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği, 2016 - Continues

Mevlana Exchange Program Coordinator, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği, 2014 - Continues

## Courses

Toprak Kirlenmesi ve Kontrolü, Under Graduate, 2016 - 2017

Seminer, Post Graduate, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017

Bitirme Tasarım, Under Graduate, 2016 - 2017

Environmental Biotechnology, Under Graduate, 2015 - 2016

Environmental Microbiology, Under Graduate, 2015 - 2016

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

- I. **Insights into the acute effect of anti-inflammatory drugs on activated sludge systems with high solids retention time**  
Ciftcioglu B., Demirkaya E., Salih E., Soylu D., Özyıldız G., Zengin Balcı G. E. , Guven D., Topuz E., Pala Özkök İ., Insel G., et al.  
ENVIRONMENTAL TECHNOLOGY, 2020 (Journal Indexed in SCI)
- II. **Impact of ultrasonic pre-treatment on domestic sludge digestion performance and microbial community dynamics**  
Zengin G. E. , Pala-Ozkok I., Okutman Taş D., Gömeç Ç., Altınbaş M., Çokgör E.  
ENVIRONMENTAL TECHNOLOGY, vol.41, no.7, pp.931-943, 2020 (Journal Indexed in SCI)
- III. **Determination of the potential of pickle wastewater as feedstock for biopolymer production**  
Guventurk A., Ozturk D., Özyıldız G., Ayisigi E., Guven D., Zengin G. E. , Tas D., Olmez-Hanci T., Pala-Ozkok I., Yağcı N., et al.  
WATER SCIENCE AND TECHNOLOGY, vol.81, no.1, pp.21-28, 2020 (Journal Indexed in SCI)
- IV. **Enhancement of nutrient removal performance of activated sludge with a novel hybrid biofilm process**  
Gunes G., Hallac E., Ozgan M., Erturk A., Tas D., Cokgor E., Guven D., Takacs I., Erdinciler A., Insel G.  
BIOPROCESS AND BIOSYSTEMS ENGINEERING, vol.42, no.3, pp.379-390, 2019 (Journal Indexed in SCI)
- V. **Comparative Assessment of Sludge Pre-Treatment Techniques to Enhance Sludge Dewaterability and Biogas Production**  
TAS D., YANGIN-GOMEÇ C., OLMEZ-HANCI T., Arıkan O. A. , Cıfci D. I. , GENCSOY E. B. , Ekdal A., UBAY-COKGOR E.  
CLEAN-SOIL AIR WATER, vol.46, no.1, 2018 (Journal Indexed in SCI)
- VI. **EVALUATION OF WATER REUSE IN A METAL FINISHING INDUSTRY**  
INSEL G., Gümüşlü E., Yuksek G., UCAR N. S. , Cokgor E., OLMEZ-HANCI T., TAS D., BABUNA F. F. , ERTEM D. F. , OkmenYildirim O., et al.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.1, pp.421-425, 2017 (Journal Indexed in SCI)
- VII. **COMPARISON OF SYNTHETIC AND DOMESTIC WASTEWATER EFFLUENTS FOR COUPLING NITROGEN REMOVAL AND CHLORELLA VULGARIS AND SCENEDESMUS DIMORPHUS PRODUCTION**  
Insel G., Gürel M., Pehlivanoglu-Mantas E., Tas D., Ica T., Cokgor E. U. , GENCSOY E. B. , MOVAHEDPOUR F., GORGUN E., OZBASARAN M.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.1, pp.433-438, 2017 (Journal Indexed in SCI)
- VIII. **Effect of eco-friendly production technologies on wastewater characterization and treatment plant performance**  
Yukse G., TAS D., Çokgör E., INSEL G., KIRCI B., ERTURAN O.  
DESALINATION AND WATER TREATMENT, vol.57, no.57, pp.27924-27933, 2016 (Journal Indexed in SCI)
- IX. **Impact of the Anoxic Volume Ratio on the Dynamics of Biological Nitrogen Removal Under Extended Aeration Conditions**  
Insel G., COKGOR E., TAS D., Sözen S., ORHON D.

WATER AIR AND SOIL POLLUTION, vol.226, no.11, 2015 (Journal Indexed in SCI)

- X. **Acute and chronic responses of denitrifying culture to diclofenac**  
Ozdemir G., AYDIN E., TOPUZ E., YANGIN-GOME C., TAS D.  
BIORESOURC E TECHNOLOGY, vol.176, pp.112-120, 2015 (Journal Indexed in SCI)
- XI. **Scientific basis of dissolved organic carbon limitation for landfilling of municipal treatment sludge - Is it attainable and justifiable?**  
Sözen S., Çokgör E., INSEL G., TAS D., DULKADIROGLU H., KARACA C., Filibeli A., Meric S., ORHON D.  
WASTE MANAGEMENT, vol.34, no.9, pp.1657-1666, 2014 (Journal Indexed in SCI)
- XII. **Optimization of diclofenac quantification from wastewater treatment plant sludge by ultrasonication assisted extraction**  
Topuz E., SARI S., OZDEMIR G., AYDIN E., PEHLIVANOGLU-MANTAS E., TAS D.  
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.958, pp.48-54, 2014 (Journal Indexed in SCI)
- XIII. **Seasonal variation of diclofenac concentration and its relation with wastewater characteristics at two municipal wastewater treatment plants in Turkey**  
Sari S., OZDEMIR G., YANGIN-GOME C., ZENGIN G. E. , TOPUZ E., AYDIN E., PEHLIVANOGLU-MANTAS E., TAS D.  
JOURNAL OF HAZARDOUS MATERIALS, vol.272, pp.155-164, 2014 (Journal Indexed in SCI)
- XIV. **Impact of aerobic stabilization on the characteristics of treatment sludge in the leather tanning industry**  
Cokgor E., AYDINLI E., TAS D., ZENGIN G. E. , ORHON D.  
ENVIRONMENTAL TECHNOLOGY, vol.35, no.6, pp.719-726, 2014 (Journal Indexed in SCI)
- XV. **Effect of stabilization on biomass activity**  
Cokgor E., TAS D., ZENGIN G. E. , INSEL G.  
JOURNAL OF BIOTECHNOLOGY, vol.157, no.4, pp.547-553, 2012 (Journal Indexed in SCI)
- XVI. **Biodegradability and Denitrification Potential of Settleable Chemical Oxygen Demand in Domestic Wastewater**  
Tas D., KARAHAN Ö., Insel G., OVEZ S., ORHON D., SPANJERS H.  
WATER ENVIRONMENT RESEARCH, vol.81, no.7, pp.715-727, 2009 (Journal Indexed in SCI)
- XVII. **Influence of pH and temperature on soluble substrate generation with primary sludge fermentation**  
Cokgor E., OKTAY S., TAS D., ZENGIN G. E. , ORHON D.  
BIORESOURC E TECHNOLOGY, vol.100, no.1, pp.380-386, 2009 (Journal Indexed in SCI)
- XVIII. **Evaluation of municipal and industrial wastewater treatment sludge stabilization in Istanbul**  
Pehlivanoglu-Mantas E., Tas D., Insel G., Aydın E., Öztürk D., Mez T., Gorgun E., Cokgorl E. U. , orhon D.  
CLEAN-SOIL AIR WATER, vol.35, no.6, pp.558-564, 2007 (Journal Indexed in SCI)
- XIX. **Respirometric assessment of primary sludge fermentation products**  
Cokgor E., ZENGIN G., TAS D., OKTAY S., RANDALL C., ORHON D.  
JOURNAL OF ENVIRONMENTAL ENGINEERING, vol.132, no.1, pp.68-74, 2006 (Journal Indexed in SCI)
- XX. **Respirometric assessment of residual organic matter for domestic sewage**  
Orhon D., Okutman D.  
ENZYM E AND MICROBIAL TECHNOLOGY, vol.32, no.5, pp.560-566, 2003 (Journal Indexed in SCI)
- XXI. **Effect of chemical treatment on soluble residual COD in textile wastewaters**  
Dulkadiroglu H., Doğruel S., Okutman D., Kabdaşlı N. I. , Sozen S., Orhon D.  
WATER SCIENCE AND TECHNOLOGY, vol.45, no.12, pp.251-259, 2002 (Journal Indexed in SCI)

## Supported Projects

Okutman Taş D., Demirkaya E., Project Supported by Higher Education Institutions, Antienflamatuar özellikteki mikrokirleticilerin atıksu arıtma tesislerinde biyolojik arıtılabilirliklerinin belirlenmesi, 2017 - 2019

Okutman Taş D., Project Supported by Higher Education Institutions, Diklofenakın anaerobik arıtmada akut toksisitesinin araştırılması, 2016 - 2018

Okutman Taş D., Project Supported by Higher Education Institutions, Deri Endüstrisi Çamurlarına Aerobik Stabilizasyonun Etkisi, 2011 - 2018

Okutman Taş D., Project Supported by Higher Education Institutions, AEROBİKÇAMUR STABİLİZASYONUNUN BİYOKÜTLE AKTİVİTESİNE ETKİSİ, 2010 - 2018

Okutman Taş D., Project Supported by Higher Education Institutions, Denitrifikasyon Yapan Bir Sistemde Diklofenak'ın Arıtılabilirliğinin Araştırılması, 2014 - 2017

Okutman Taş D., Project Supported by Higher Education Institutions, Evsel Atıksu Arıtma Tesislerinde Diklofenak'ın Arıtılabilirliğinin Araştırılması, 2012 - 2013

Okutman Taş D., Project Supported by Higher Education Institutions, Metal Son İşleme Tesisinin Atıksularının Biyolojik Arıtılabilirliğinin İncelenmesi, 2011 - 2013

## Scientific Consultations

TÜBİTAK, Project Consultancy, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, Turkey, 2017 - Continues

TÜBİTAK, Project Consultancy, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, Turkey, 2017 - Continues

Norm Çevre Teknolojileri, Scientific Consultancy, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, Turkey, 2015 - 2016

Arçelik A.Ş. ve ARGEM A.Ş., Scientific Consultancy, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, Turkey, 2011 - 2012

## Scientific Research / Working Group Memberships

International Water Association, International Water Association, United States Of America, <http://www.iwa-network.org/>, 2010 - Continues

American Chemical Society, American Chemical Society, United States Of America, <https://www.acs.org/>, 2005 - Continues

The Association of Environmental Engineers and Scientists, Georgia Institute of Technology, United States Of America, <http://aees.ce.gatech.edu/>, 2002 - Continues

## Edit Congress and Symposium Activities

The World Multidisciplinary Earth Sciences Symposium – WMESS 2016, Attendee, Praha, Czech Republic, 2016

ICWEEM 2016 : 18th International Conference on Water, Energy and Environmental Management, Attendee, Madrid, Spain, 2016

100 years and Counting, Attendee, Essen, Germany, 2014

IWA Specialist Conference on EcoTechnologies for Sewage Treatment Plants, Attendee, Verona, Italy, 2014

17th International Symposium on Environmental Pollution and its Impact on Life in the Mediterranean Region

Mediterranean Scientific Association of Environmental Protection, MESAEP, Attendee, İstanbul, Turkey, 2013

13th World Congress on Anaerobic Digestion: Recovering (bio) Resources for the World, Attendee, Spain, 2013

8th International Symposium on Waste Management Problems in Agro-Industries, Attendee, Turkey, 2011

Third European Bioremediation Conference, Attendee, Haniá, Greece, 2005

105th General Meeting, American Society for Microbiology, Attendee, Georgia, United States Of America, 2005

2005 Quadrangle Conference on Environmental Science and Engineering, Attendee, Georgia, United States Of America, 2005

9th Annual Association of Environmental Engineers and Scientists (AEES), Attendee, Georgia, United States Of America, 2005

## Citations

Total Citations (WOS):516

h-index (WOS):12

## Awards

Okutman Taş D., Bilim Hizmet Ödülü, Akdeniz Üniversitesi, May 2019

Okutman Taş D., BAGEP, Bilim Akademisi, February 2017

Okutman Taş D., Eser Tümen Üstün Başarı Ödülü, FABED, June 2015

Okutman Taş D., Üstün Başarılı Genç Bilim İnsanı Ödülü, Türkiye Bilimler Akademisi, June 2015

Okutman Taş D., Best PhD Thesis, - Georgia Institute of Technology, School of Civil and Environmental Engineering Awards Committee, May 2006