

Prof. AYŞENUR UĞURLU

Personal Information

Office Phone: [+90 0312 297 7822](tel:+9003122977822)

Fax Phone: [+90 0312 299 2053](tel:+9003122992053)

Email: ugurlu@hacettepe.edu.tr

Web: <https://avesis.hacettepe.edu.tr/ugurlu>

International Researcher IDs

ORCID: 0000-0002-2322-7190

ScopusID: 6603495411

Yoksis Researcher ID: 8600

Education Information

Doctorate, University of Birmingham, İnşaat Bölümü, United Kingdom 1988 - 1992

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Turkey 1985 - 1988

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, Turkey 1980 - 1985

Foreign Languages

English, C1 Advanced

Research Areas

Environmental Engineering, Environmental Technology, Waste Water Collection and Treatment, Industrial and Hazardous Waste Management, Solid Waste Engineering and Management, Water Pollution and Control, Water Supply and Treatment, Engineering and Technology

Academic and Administrative Experience

Hacettepe Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2015 - Continues

Hacettepe Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 1998 - Continues

Hacettepe Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2011 - 2012

Hacettepe Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2008 - 2011

Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Çevremühendisliği (YI) (Tezli), 2008 - 2011

Hacettepe Üniversitesi, Mühendislik Fakültesi, Çevre Mühendisliği Bölümü, 2001 - 2002

Advising Theses

UĞURLU A., Türkiye'nin hayvansal gübre kaynaklı sera gazı emisyonları durumu ve biyogaz enerjisi potansiyeli, Postgraduate, A.ERDİNÇ(Student), 2017

UĞURLU A., Büyükbaş hayvan gübresi ve tavuk gübresinden biyogaz üretiminin ADM1 kullanılarak modellenmesi,

Postgraduate, S.TUNÇEL(Student), 2017
UĞURLU A., Design and optimization of a wastewater treatment plant, Postgraduate, K.ALIMI(Student), 2016
UĞURLU A., Removal of dye (Reactive Green 19) from aqueous medium using amine modified resin, Postgraduate, F.HASSANBAKİ(Student), 2014
UĞURLU A., İki aşamalı termofilik anaerobik sistemde tavuk gübresinden biyogaz üretimi: Zeolit etkisinin araştırılması, Postgraduate, K.DALKILIÇ(Student), 2013
UĞURLU A., Nitroselüloz endüstrisi atık sularının biyolojik/kimyasal olarak arıtılması, Postgraduate, Ş.DENİZ(Student), 2012
UĞURLU A., Biyogaz üretiminin teknik, ekonomik ve çevresel analizi, Postgraduate, Ö.CEREN(Student), 2010
UĞURLU A., Boyar maddelerin gideriminde değişik adsorbanların kullanımının araştırılması: Zeolit ve uçucu kül, Postgraduate, V.ALTUNAY(Student), 2010
UĞURLU A., As(V) gideriminde uçucu küllerin kullanımının araştırılması, Postgraduate, Ü.TEKÇE(Student), 2010
UĞURLU A., Evsel atık suların düşük sıcaklıklarda anaerobik ardışık kesikli reaktörle arıtımı, Doctorate, B.KAYRANLI(Student), 2008
UĞURLU A., AKSU Z., Tekstil atıksularındaki reaktif boyaların (reaktif mavi 19, reaktif kırmızı 198) ardışık kesikli reaktörlerle arıtılabilirliğinin incelenmesi, Doctorate, H.KOÇYİĞİT(Student), 2008
UĞURLU A., Yapay sinir ağları ve asm2 kullanılarak aktif çamur prosesinin kontrolü ve modellenmesi, Doctorate, C.ÖZTÜRK(Student), 2007
UĞURLU A., Katı atık depolama alanlarından oluşan sızıntı sularının arıtımında yapay sulak alanların kullanımı, Doctorate, A.YALÇUK(Student), 2007
UĞURLU A., Büyük ölçekli atıksu arıtma tesislerinde yağışın işletme parametrelerine etkisi, Postgraduate, M.ÖNCÜL(Student), 2005
ONACAK T., UĞURLU A., Türkiye'deki santral uçucu küllerinin sızıntı özelliklerinin incelenmesi, Postgraduate, O.EVİRGEN(Student), 2004
UĞURLU A., Deponi sızıntı sularının havalandırılmalı biyolojik filtre ile arıtımı, Postgraduate, G.ALPAY(Student), 2004

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Bioenergy's role in achieving a low-carbon electricity future: A case of Türkiye**
Ersoy A. E., UĞURLU A.
APPLIED ENERGY, 2024 (SCI-Expanded)
- II. **High-rate biogas production from cattle manure in an integrated microbial electrolysis cell and anaerobic reactor system**
Dalkilic K., UĞURLU A.
Biomass Conversion and Biorefinery, vol.14, no.5, pp.7181-7196, 2024 (SCI-Expanded)
- III. **Bio-Based Processes for Material and Energy Production from Waste Streams under Acidic Conditions**
Cetecioglu Z., Atasoy M., Cenian A., Solowski G., Trcek J., UĞURLU A., Sedlakova-Kadukova J.
FERMENTATION-BASEL, vol.8, no.3, 2022 (SCI-Expanded)
- IV. **Evaluation of Trace Element Contamination and Health Risks of Medicinal Herbs Collected from Unpolluted and Polluted Areas in Sichuan Province, China**
Gao J., Zhang D., Uwiringiyimana E., Proshad R., UĞURLU A.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.199, no.11, pp.4342-4352, 2021 (SCI-Expanded)
- V. **Adopting citizen science approach for water quality monitoring in Uzungol, Turkey**
Cakmak E., UĞURLU A., ANBAROĞLU B.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.193, no.9, 2021 (SCI-Expanded)
- VI. **Effects of soil conservation practices on soil erosion and the size selectivity of eroded sediment on cultivated slopes**
Xu L., Zhang D., Proshad R., Chen Y., Huang T., UĞURLU A.
Journal of Mountain Science, vol.18, no.5, pp.1222-1234, 2021 (SCI-Expanded)

- VII. **Bioaccumulation of Cadmium in *Nicotiana tabacum* L. (Tobacco) Characterized by Soil Properties: A Case Study in the Sichuan Basin, China**
Lu X., Zhang D., UĞURLU A., Chen Y., Proshad R.
Analytical Letters, vol.54, no.18, pp.2883-2894, 2021 (SCI-Expanded)
- VIII. **Enhanced biogas production of red microalgae via enzymatic pretreatment and preliminary economic assessment**
KENDİR ÇAKMAK E., UĞURLU A.
Algal Research, vol.50, 2020 (SCI-Expanded)
- IX. **The potential of Turkey's province-based livestock sector to mitigate GHG emissions through biogas production**
Ersoy E., UĞURLU A.
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.255, 2020 (SCI-Expanded)
- X. **Treatment of landfill leachate with laboratory scale vertical flow constructed wetlands: plant growth modeling**
YALÇUK A., UĞURLU A.
INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, vol.22, no.2, pp.157-166, 2020 (SCI-Expanded)
- XI. **A comprehensive review on pretreatment of microalgae for biogas production**
Kendir E., UĞURLU A.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.42, no.12, pp.3711-3731, 2018 (SCI-Expanded)
- XII. **Comparative evaluation of biogas production from dairy manure and co-digestion with maize silage by CSTR and new anaerobic hybrid reactor**
Varol A., UĞURLU A.
ENGINEERING IN LIFE SCIENCES, vol.17, no.4, pp.402-412, 2017 (SCI-Expanded)
- XIII. **Influence of Hydraulic Retention Time and Reactor Configuration During Fermentation of Diluted Chicken Manure**
Dalkilic K., UĞURLU A.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.181, no.1, pp.157-176, 2017 (SCI-Expanded)
- XIV. **Biogas Production from Microalgae (*Spirulina platensis*) in a Two Stage Anaerobic System**
Varol A., UĞURLU A.
WASTE AND BIOMASS VALORIZATION, vol.7, no.1, pp.193-200, 2016 (SCI-Expanded)
- XV. **Biogas production from chicken manure at different organic loading rates in a mesophilic-thermophilic two stage anaerobic system**
DALKILIC K., UĞURLU A.
JOURNAL OF BIOSCIENCE AND BIOENGINEERING, vol.120, no.3, pp.315-322, 2015 (SCI-Expanded)
- XVI. **BIOLOGICAL DECOLORIZATION OF REACTIVE AZO DYE BY ANAEROBIC/AEROBIC-SEQUENCING BATCH REACTOR SYSTEM**
Kocyigit H., UĞURLU A.
GLOBAL NEST JOURNAL, vol.17, no.1, pp.210-219, 2015 (SCI-Expanded)
- XVII. **ASSESSMENT OF METHANOGENIC ACTIVITY AND KINETICS OF ANAEROBIC GRANULAR SLUDGE**
Kayranli B., UĞURLU A.
FRESenius ENVIRONMENTAL BULLETIN, vol.21, pp.2394-2398, 2012 (SCI-Expanded)
- XVIII. **Effects of temperature and biomass concentration on the performance of anaerobic sequencing batch reactor treating low strength wastewater**
Kayranli B., UĞURLU A.
DESALINATION, vol.278, pp.77-83, 2011 (SCI-Expanded)
- XIX. **Comparison of horizontal and vertical constructed wetland systems for landfill leachate treatment**
YALÇUK A., UĞURLU A.
BIORESOURCING TECHNOLOGY, vol.100, no.9, pp.2521-2526, 2009 (SCI-Expanded)
- XX. **Monitoring and control of biological nutrient removal in a Sequencing Batch Reactor**
Akin B., Ugurlu A.
PROCESS BIOCHEMISTRY, vol.40, no.8, pp.2873-2878, 2005 (SCI-Expanded)

- XXI. **The effect of sludge retention time on phosphate removal in a simultaneous feeding and decating sequencing batch reactor**
Akin B., Ugurlu A.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.14, no.9, pp.807-812, 2005 (SCI-Expanded)
- XXII. **Leaching characteristics of fly ash**
Ugurlu A.
ENVIRONMENTAL GEOLOGY, vol.46, pp.890-895, 2004 (SCI-Expanded)
- XXIII. **The effect of an anoxic zone on biological phosphorus removal by a sequential batch reactor**
Akin B., Ugurlu A.
BIORESOURTE TECHNOLOGY, vol.94, no.1, pp.1-7, 2004 (SCI-Expanded)
- XXIV. **Biological removal of carbon, nitrogen, and phosphorus in a sequencing batch reactor**
Akin B., Ugurlu A.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART A-TOXIC/HAZARDOUS SUBSTANCES & ENVIRONMENTAL ENGINEERING, vol.38, no.8, pp.1479-1488, 2003 (SCI-Expanded)
- XXV. **Enhanced phosphorus removal by glucose fed sequencing batch reactor**
AKIN B., UĞURLU A.
Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, vol.36, no.9, pp.1757-1766, 2001 (SCI-Expanded)
- XXVI. **Phosphorus removal by fly ash**
UĞURLU A., SALMAN B.
Environment International, vol.24, no.8, pp.911-918, 1998 (SCI-Expanded)

Articles Published in Other Journals

- I. **Treatment of Nitrocellulose Industry Watewaters by Upflow Denitrification Filter: Effect of Packing Media and Recirculation**
UĞURLU A., Ozturkcu S. D.
ENVIRONMENTAL PROCESSES-AN INTERNATIONAL JOURNAL, vol.5, no.1, pp.81-94, 2018 (ESCI)
- II. **Biogas production from microalgae**
Cavinato C., UĞURLU A., de Godos I., Kendir E., Gonzalez-Fernandez C.
MICROALGAE-BASED BIOFUELS AND BIOPRODUCTS: FROM FEEDSTOCK CULTIVATION TO END-PRODUCTS, pp.155-182, 2017 (Peer-Reviewed Journal)
- III. **The impact of shock loadings on the performance of thermophilic anaerobic filters with porous and non-porous packings**
UĞURLU A., Forster C.
Bioresource Technology, vol.39, no.1, pp.23-30, 1992 (Scopus)

Books & Book Chapters

- I. **Anaerobic Digestion: Biogas Production From Wastes**
UĞURLU A.
in: Advances in Environmental Technology, Müge Andaç, Editor, Hacettepe Üniversitesi, Ankara, pp.1-15, 2018

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of Enzymatic Pretreatment Conditions and Digestion Temperatures for Enhanced Biogas Production from Red Microalgae**
KENDİR E., UĞURLU A.

EUALGAE Final Conference - European Recent Advances in the Microalgae Field, Madrid, Spain, 26 - 27 February 2019, vol.1, pp.1

- II. **MİKROALGLERDEN BİYOGAZ ÜRETİMİ**
UĞURLU A.
9.Yenilenebilir Enerji Kaynakları Sempozyumu, YEKSEM 2017, Turkey, 3 - 05 November 2017
- III. • **Sultan Kocaman, Berk Anbaroğlu, Ayşenur Uğurlu, Nusret Demir (2017) Coğrafi Teknolojilerin Sivil Bilim Gelişimine Katkısı**
KOCAMAN S., ANBAROĞLU B., UĞURLU A., DEMİR N.
16. Türkiye Harita Bilimsel ve Teknik Kurultayı, Turkey, 3 - 06 June 2017
- IV. **Coğrafi Bilgi Teknolojilerinin Sivil Bilimdeki Yeri**
KOCAMAN S., ANBAROĞLU B., UĞURLU A., DEMİR N.
Tufuab IX. Teknik Sempozyumu, Afyon, Turkey, 27 - 29 April 2017
- V. **Sivil Bilim: Mobil Çağda Bilimsel Süreçlerin Gelişimine Yeni Bir Yaklaşım**
KOCAMAN S., ANBAROĞLU B., UĞURLU A., DEMİR N.
19. AKADEMİK BİLİŞİM KONFERANSI, Turkey, 8 - 10 February 2017
- VI. **Integration of Science Technology and Citizen Participation in Water Quality Monitoring**
KOCAMAN S., UĞURLU A., ANBAROĞLU B., ANDAÇ ÖZDİL A. M.
ECSACitizen Science –Innovation in Open Science, Berlin, Germany, 19 - 21 May 2016
- VII. **Monitoring the Water Quality using Citizen Science Approach**
KOCAMAN S., ANDAÇ ÖZDİL A. M., ANBAROĞLU B., UĞURLU A.
First International ECSA Conference, 19 May 2016
- VIII. **Land application of sludge Possible health risks and management strategies**
KENDİR E., UĞURLU A.
16th International Congress of Soil Science (ICSS-2016): Healthy Soils for Food Security, Islamabad, Pakistan, 15 - 17 March 2016
- IX. **Use of sewage sludge as agricultural soil amendment Benefits versus drawbacks**
UĞURLU A.
16th International Congress of Soil Science (ICSS-2016): Healthy Soils for Food Security, Islamabad, Pakistan, 15 - 17 March 2016
- X. **Sudaki Uranyumun Biyoremediasyonu**
GÜLZAT K., UĞURLU A.
Ulusal Çevre Kongresi, Afyon, Turkey, 22 - 24 October 2015
- XI. **REMEDIATION OF URANIUM CONTAMINATED WATER BY ANAEROBIC MICROORGANISMS**
GULZAT K., UĞURLU A.
7th Eastern European Young Water Professionals Conference, 17 - 19 September 2014
- XII. **USE OF SPIRULINA PLANTESIS MICRO ALGAE AS A RENEWABLE ENERGY SOURCE**
UĞURLU A., AYHAN V.
ASME 2014 8th International Conference on Energy Sustainability, 28 June - 01 July 2014
- XIII. **BIOGAS PRODUCTION FROM CO-DIGESTION OF HORSE MANURE AND WASTE SEWAGE SLUDGE**
Agayev E., UĞURLU A.
NSTI Nanotechnology Conference and Expo, Massachusetts, United States Of America, 13 - 16 June 2011, pp.657-660
- XIV. **Ammonium removal from leachate by Turkish clinoptilolite effect of competing ions**
AYTUNÇ P., UĞURLU A.
9th International Waste Management and Landfill Symposium, 12 - 14 October 2003

Supported Projects

UĞURLU A., Dalkılıç K., Project Supported by Higher Education Institutions, Kombine Mikrobiyal Elektroliz Hücresi ve Anaerobik Çürütücü ile Hayvansal Atıklardan Biyogaz Üretiminin Geliştirilmesi, 2020 - 2022

UĞURLU A., KENDİR E., Project Supported by Higher Education Institutions, ENZİMATİK ÖN ARITIM İLE MİKROALGLERDEN BİYOGAZ ÜRETİMİNİN ARTTIRILMASI, 2017 - 2019

UĞURLU A., KENDİR E., ANBAROĞLU B., Ermiş D. E., Project Supported by Higher Education Institutions, Uzungölün Su Kalitesinin İzlenmesinde Sivil Bilim Yaklaşımının İncelenmesi, 2017 - 2019

UĞURLU A., SEVER AKDAĞ A., ANDAÇ ÖZDİL A. M., AKAN A. P., ÇAKMAK S., Project Supported by Higher Education Institutions, Çevre Mühendisliği Çevre Kimyası ve Çevre Mikrobiyolojisi Öğrenci Laboratuvarları için Altyapının Oluşturulması, 2015 - 2018

UĞURLU A., Project Supported by Other Private Institutions, HAYVANSAL VE BİTKİSEL ATIKLARIN BİYOKÜTLE KARAKTERİZASYONU VE BİYOGAZ VERİMLİLİĞİNİN BELİRLENMESİ, 2017 - 2017

UĞURLU A., KENDİR E., Project Supported by Higher Education Institutions, Enzimatik Ön Arıtım Yöntemlerinin Mikroalgden Biyogaz Eldesine Etkisinin Araştırılması, 2016 - 2017

UĞURLU A., Project Supported by Other Private Institutions, Erzincan Çöpler Atık Depolama Tesisi Uygulama Projesi, 2016 - 2016

UĞURLU A., Project Supported by Higher Education Institutions, Su Kalitesi ve Kontrolü, 2016 - 2016

UĞURLU A., Project Supported by Higher Education Institutions, Işıklı gölü su kalitesinin izlenmesi, 2010 - 2016

UĞURLU A., Project Supported by Higher Education Institutions, Çiftlik atıklarının birlikte değerlendirilerek biyogaz oluşturma potansiyelinin araştırılması, 2013 - 2015

Metrics

Publication: 51
Citation (WoS): 416
Citation (Scopus): 516
H-Index (WoS): 8
H-Index (Scopus): 8

Non Academic Experience

İller Bankası Genel Müdürlüğü