

Asst. Prof. YASEMİN DİLŞAD YILMAZEL TOKEL

Personal Information

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Biography

Dr. Yasemin Dilşad Yılmazel lisans derecelerini çift anadal mezunu olarak Orta Doğu Teknik Üniversitesi (ODTÜ) Çevre Mühendisliği (2007) ve Kimya Mühendisliği (2008) Bölümlerinden almıştır. Yüksek lisans derecesini de yine ODTÜ Çevre Mühendisliği Bölümü'nden almış ve eş zamanlı olarak Almanya'daki Stuttgart Üniversitesi'nde ziyaretçi araştırmacı olarak çalışmıştır. Yüksek lisans araştırmaları sırasında anaerobik çürütme prosesi kalıntılarında nütrient gerikazanımı ve katma-değeri olan ürün eldesi üzerine odaklanmıştır. Dr. Yılmazel, 2014 yılında ABD'deki Villanova Üniversitesi Mühendislik Fakültesi'nden atıksu çamurları ve tarımsal biyokütleler gibi yenilenebilir hammaddelerin fermantasyonu ile hipertermofilik biyohidrojen üretimi konusunda doktora derecesini almıştır. Doktorasını takip eden süreçte Penn State Üniversitesi'nde Dr. Bruce Logan'ın araştırma grubuna doktora sonrası araştırmacı olarak katılmış ve orada mikrobiyal elektrokimyasal yöntemler ile ilgili araştırmalar yapmıştır. Dr. Yılmazel Ağustos 2016'da ABD'de bulunan Rochester Institute of Technology (RIT) Kimya Mühendisliği Bölümü'nde yardımcı doçent olarak çalışmaya başlamış ve RIT onun ODTÜ'ye gelmesinden önceki son durağı olmuştur. Dr. Yılmazel Ocak 2018 de ODTÜ'de göreve başlamıştır ve halen Çevre Mühendisliği Bölümü'nde öğretim üyesi olarak çalışmaktadır. Dr. Yılmazel yemek yapmaktan, seyahat etmekten ve klasik müzik dinlemekten keyif almaktadır. Boş zamanlarında ise piyano çalmayı öğrenmektedir.

Education Information

Doctorate, Villanova University, College of Engineering , Civil and Environmental Engineering Department, United States Of America 2009 - 2014

Post Graduate, Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, Turkey 2007 - 2009

Undergraduate Double Major, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, Turkey 2004 - 2008

Under Graduate, Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, Turkey 2003 - 2007

Foreign Languages

German, C1 Advanced

English, C2 Proficiency

Research Areas

Environmental Engineering

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, 2018 - Continues

Assistant Professor, Rochester Institute of Technology, Kate Gleason Faculty of Engineering , Chemical Engineering , 2016 - 2018

Research Assistant PhD, Pennsylvania State University, College of Engineering , Civil and Environmental Engineering, 2014 - 2016

Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, 2007 - 2009

Professional Experience

Erasmus Coordinator, Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, 2019 - Continues

Deputy Head of Department, Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, 2018 - Continues

Fakülte Kurulu Üyesi, Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, 2018 - Continues

Courses

ENVIRONMENTAL CHEMISTRY LABORATORY, Under Graduate, 2018 - 2019

FUNDAMENTALS OF ENVIROMENTAL ENG.PRO., Under Graduate, 2018 - 2019

Anaerobic Treatment of Wastes, Post Graduate, 2018 - 2019

Advising Theses

Yilmazel Tokel Y. D. , Geostatistical Analysis of Bathing Water Quality in Turkey, Post Graduate, N.BARÇIN(Student), 2019

Jury Memberships

Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, August, 2018

Award, Yuksek Lisans Burslari (NSF Graduate Fellowship), Middle East Technical University, January, 2018

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

- **Electrical current generation in microbial electrolysis cells by hyperthermophilic archaea *Ferroglobus placidus* and *Geoglobus ahangari***
Yilmazel Y. D. , Zhu X., Kim K., Holmes D. E. , Logan B. E.
BIOELECTROCHEMISTRY, vol.119, pp.142-149, 2018 (Journal Indexed in SCI)
- **Effect of pre-acclimation of granular activated carbon on microbial electrolysis cell startup and performance**
LaBarge N., Yilmazel Y. D. , Hong P., Logan B. E.
BIOELECTROCHEMISTRY, vol.113, pp.20-25, 2017 (Journal Indexed in SCI)
- **Impact of acclimation methods on microbial communities and performance of anaerobic fluidized bed membrane bioreactors**
LaBarge N., Ye Y., Kim K., Yilmazel Y. D. , Saikaly P. E. , Hong P., Logan B. E.
ENVIRONMENTAL SCIENCE-WATER RESEARCH & TECHNOLOGY, vol.2, pp.1041-1048, 2016 (Journal Indexed in

- SCI)
Hyperthermophilic hydrogen production from wastewater biosolids by *Caldicellulosiruptor bescii*
Yilmazel Y. D. , Johnston D., Duran M.
- INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, pp.12177-12186, 2015 (Journal Indexed in SCI)
Is acetoclastic methanogen composition in full-scale anaerobic processes related to acetate utilization capacity?
Yilmaz V., Ince-Yilmaz E., Yilmazel Y. D. , Duran M.
- APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, vol.98, pp.5217-5226, 2014 (Journal Indexed in SCI)
Nitrogen and phosphorus recovery from anaerobic co-digestion residues of poultry manure and maize silage via struvite precipitation
Yilmazel Y. D. , Demirer G. N.
- WASTE MANAGEMENT & RESEARCH, vol.31, pp.792-804, 2013 (Journal Indexed in SCI)
Anaerobic co-digestion of sewage sludge and primary clarifier skimmings for increased biogas production
Alanya S., Yilmazel Y. D. , Park C., Willis J. L. , Keaney J., Kohl P. M. , Hunt J. A. , Duran M.
- WATER SCIENCE AND TECHNOLOGY, vol.67, pp.174-179, 2013 (Journal Indexed in SCI)
Removal and recovery of nutrients as struvite from anaerobic digestion residues of poultry manure
YILMAZEL Y. D. , Demirer G. N.
- ENVIRONMENTAL TECHNOLOGY, vol.32, pp.783-794, 2011 (Journal Indexed in SCI)
The determination of fertilizer quality of the formed struvite from effluent of a sewage sludge anaerobic digester
UYSAL A., YILMAZEL Y. D. , DEMİRER G. N.
- JOURNAL OF HAZARDOUS MATERIALS, vol.181, pp.248-254, 2010 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- **Critical Bathing Water Quality Assessment in Coastal Waters of Marmara Region**
Yilmazel Tokel Y. D. , Sanli M., Dogan N. B.
1. Uluslararası 13. Ulusal Çevre Mühendisliği Kongresi, İstanbul, Turkey, 10 - 12 October 2019

Supported Projects

- YILMAZEL TOKEL Y. D. , KAŞ A., Project Supported by Higher Education Institutions, Karanlık Fermentasyon Çıkış Sularında Biyoelektrokimyasal Reaktörler ile Enerji Eldesi, 2019 - Continues
- Bayramoğlu T. H. , Yilmazel Tokel Y. D. , TUBITAK Project, Anaerobik Çürütme ve Mikrobiyal Yakıt Hücreleri Entegre Sistemi ile Yenilenebilir Biyokütleden Yüksek Verimle Biyogaz Eldesi, 2020 - 2022
- Yilmazel Tokel Y. D. , TUBITAK Project, Hiper termofilik mikroorganizmalar ile mikrobiyal elektrokimyasal sistemlerde elektrik ve hidrojen üretimi, 2019 - 2021
- Yetiş Ü., Dilek F. B. , Yilmazel Tokel Y. D. , Küçük E., Pilevneli T., Ülgüdür N., Project Supported by Other Official Institutions, ATIK ARA DEPOLAMA TESİSLERİNE İLİŞKİN KRİTER VE ESASLARIN BELİRLENMESİ PROJESİ, 2019 - 2020
- Yilmazel Tokel Y. D. , Project Supported by Other Private Institutions, Biohydrogen production from waste biomass, 2019 - 2020
- Yilmazel Tokel Y. D. , Yılmaz T., Technopark, Fırat Dicle Havzası Kuraklık Yönetim Planı , 2018 - 2019

Scientific Refereeing

- TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2019
TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, June 2019
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2019
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2019
WATER SCIENCE AND TECHNOLOGY, SCI Journal, December 2018
ARTVİN ÇORUH ÜNİVERSİTESİ ORMAN FAKÜLTESİ DERGİSİ, National Scientific Refreed Journal, May 2018
FRONTIERS IN MICROBIOLOGY, SCI Journal, February 2018
WATER SCIENCE AND TECHNOLOGY, SCI Journal, February 2018
Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey, January 2018
Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey, January 2018

Scientific Consultations

TUBITAK, Project Consultancy, Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, Turkey, 2019 - Continues

Tasks In Event Organizations

Yılmazel Tokel Y. D. , Köken M., Kahveci H. S. , Ayrancı Tansık İ., Engineering Day, Workshop Organization, Ankara, Turkey, Mayıs 2018

Scientific Research / Working Group Memberships

Mikrobiyal Elektrokimyasal Sistemler Arastirma Grubu , Orta Doğu Teknik Üniversitesi, Turkey, www.yasemindilsad.com , 2019 - Continues

Citations

Total Citations (WOS):261
h-index (WOS):7

Invited Talks

Cevre Muhendisligi Bolumu Seminerleri , Seminar, Hacettepe Üniversitesi, Turkey, January 2019

Scholarships

Yurtici Yuksek Lisans Bursu , TUBITAK, 2007 - 2009

Awards

Kiriş E., Askan Gündođan A., Yilmazel Tokel Y. D. , Research Encouragement Award, Odtü Prof. Dr. Mustafa N.Parlar
Eđitim Ve Arařtırma Vakfı, December 2018