

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: ABA-4573-2020

ScopusID: 36081542700

Yoksis Researcher ID: 276249

## 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.

## Research Areas

Environmental Engineering

## Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, 2024 - Continues

Assistant Professor, Middle East Technical University, Faculty Of Engineering, Department Of Environmental Engineering, 2018 - 2024

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

## Academic and Administrative 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 - 2021

Fakülte Kurulu Üyesi, Middle East Technical University, Faculty of Engineering, Department of Environmental Engineering, 2018 - 2021

## Courses

FUNDAMENTALS OF ENVIROMENTAL ENG.PRO., Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

Anaerobic Treatment of Wastes, Postgraduate, 2019 - 2020, 2018 - 2019

Instrumental Analysis for Environmental Engineering , Undergraduate, 2018 - 2019

ENVIRONMENTAL CHEMISTRY LABORATORY, Undergraduate, 2018 - 2019

## Advising Theses

Yilmazel Tokel Y. D., Hyperthermophilic Hydrogen Production from Cattle Manure by Two-Stage Dark Fermentation and Microbial Electrolysis Cell, Postgraduate, B.TUNCA(Student), 2023

Yilmazel Tokel Y. D., Promoting the application of anaerobic digestion technology: Microbial electrolysis cell (MEC) integration and struvite precipitation, Postgraduate, F.ECE(Student), 2023

YILMAZEL TOKEL Y. D., Impact of process conditions on methane production in anaerobic digestion and microbial electrolysis cell (AD-MEC) integrated systems, Postgraduate, M.ŞANLI(Student), 2022

YILMAZEL TOKEL Y. D., Start-up strategies for enhanced methane production from cattle manure in bioelectrochemical systems, Postgraduate, A.GHADERIKIA(Student), 2022

YILMAZEL TOKEL Y. D., Enhancement of biomethane production from cattle manure digestion via granular activated carbon amendment, Postgraduate, Y.ODABAŞ(Student), 2022

Yilmazel Tokel Y. D., Hyperthermophilic hydrogen production by Geoglobus acetivorans in microbial electrolysis cells, Postgraduate, A.KAŞ(Student), 2021

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

## Jury Memberships

Award, ADIM ODTÜ Lisans Projeleri Değerlendirme Jürisi, Orta Doğu Teknik Üniversitesi, February, 2020

Award, NSF Graduate Research Program Fellowship, Middle East Technical University, January, 2018

## Published journal articles indexed by SCI, SSCI, and AHCI

### I. Nutrient recovery from manure digestate by using waste magnesite powder and bone meal as sustainable substitutes for struvite precipitation

Kutlar F. E., Engin I., Yilmazel Y. D.

JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.99, no.7, pp.1671-1682, 2024 (SCI-Expanded)

### II. Methane Recovery from Cattle Manure: Role of Granular Activated Carbon Amendment into Anaerobic Digestion-Microbial Electrolysis Cells (AD-MECs) Integrated Systems

Ghaderikia A., YILMAZEL TOKEL Y. D.

ACS SUSTAINABLE CHEMISTRY & ENGINEERING, vol.12, no.4, pp.1437-1445, 2024 (SCI-Expanded)

- III. **Enhanced biohydrogen production from high loads of untreated cattle manure by cellulolytic bacterium *Caldicellulosiruptor bescii* at 75 °C**  
TUNCA B., Kutlar F. E., Kas A., Yilmazel Y. D.  
Waste Management, vol.171, pp.401-410, 2023 (SCI-Expanded)
- IV. **Start-up strategies of electromethanogenic reactors for methane production from cattle manure**  
Ghaderikia A., Taşkın B., YILMAZEL TOKEL Y. D.  
Waste Management, vol.159, pp.27-38, 2023 (SCI-Expanded)
- V. **High current density via direct electron transfer by hyperthermophilic archaeon, *Geoglobus acetivorans*, in microbial electrolysis cells operated at 80 °C**  
KAŞ A., YILMAZEL TOKEL Y. D.  
Bioelectrochemistry, vol.145, 2022 (SCI-Expanded)
- VI. **Carbon-based conductive materials enhance biomethane recovery from organic wastes: A review of the impacts on anaerobic treatment**  
Kutlar F. E., Tunca B., Yilmazel Tokel Y. D.  
CHEMOSPHERE, vol.290, 2022 (SCI-Expanded)
- VII. **Biohydrogen production from cattle manure and its mixtures with renewable feedstock by hyperthermophilic *Caldicellulosiruptor bescii***  
YILMAZEL TOKEL Y. D., Duran M.  
Journal of Cleaner Production, vol.292, 2021 (SCI-Expanded)
- VIII. **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 (SCI-Expanded)
- IX. **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 (SCI-Expanded)
- X. **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, no.6, pp.1041-1048, 2016 (SCI-Expanded)
- XI. **Hyperthermophilic hydrogen production from wastewater biosolids by *Caldicellulosiruptor bescii***  
Yilmazel Y. D., Johnston D., Duran M.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.36, pp.12177-12186, 2015 (SCI-Expanded)
- XII. **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, no.11, pp.5217-5226, 2014 (SCI-Expanded)
- XIII. **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, no.8, pp.792-804, 2013 (SCI-Expanded)
- XIV. **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, no.1, pp.174-179, 2013 (SCI-Expanded)
- XV. **Removal and recovery of nutrients as struvite from anaerobic digestion residues of poultry manure**  
YILMAZEL Y. D., Demirer G. N.  
ENVIRONMENTAL TECHNOLOGY, vol.32, no.7, pp.783-794, 2011 (SCI-Expanded)

- XVI. **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 (SCI-Expanded)

### Articles Published in Other Journals

- I. **The impact of hematite on the anaerobic digestion of cattle manure**  
Odabaş Y., Yilmazel Y. D.  
International Journal of Agriculture, Environment and Food Sciences, vol.7, no.1, pp.70-78, 2023 (Peer-Reviewed Journal)
- II. **Exceedance probability assessment of bathing water quality standards in lake Van based on a geostatistical analysis**  
Sanli M., Yilmazel Tokel Y. D.  
International Journal of Agriculture, Environment and Food Sciences, vol.5, no.4, pp.675-688, 2021 (Peer-Reviewed Journal)
- III. **Nutrient recovery from anaerobically digested sewage sludge by struvite precipitation**  
Yilmazel Tokel Y. D.  
ITU dergisi/E Su Kirlenmesi Kontrolu, vol.21, no.1, pp.25-32, 2011 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Biyohidrojen Üretim Teknolojileri ve Uygulamalarına Genel Bakış: Kısıtlamalar, Ölçek Büyütülmesi ve Ticarileşme**  
Pulluoglu S. P., YILMAZEL TOKEL Y. D.  
ELEKTROKİMYASAL VE KİMYASAL ENERJİ DEPOLAMA TEKNOLOJİLERİ SEMPOZYUMU, 30 November - 01 December 2023
- II. **Use of pig manure from the Chilean swine industry for the production of hydrogen through a dark fermentation process**  
Perez N., Irarrazaval C., Manrique R., Rodrigue A., Serafin D., Mena M., Masip Y., YILMAZEL TOKEL Y. D., GARRIDO R.  
4th ENERGY, EFFICIENCY AND ENVIRONMENTAL SUSTAINABILITY CONFERENCE, La-Serena, Chile, 29 November 2023
- III. **TAMPONLARIN SIĞIR GUBRESİNİ İŞLEYEN ANAEROBİK FERMENTASYON SİSTEMLERİNİN ENTEGRASYON SİSTEMLERİNİN ZERİNDEKİ ETKİSİ**  
Oden B., YILMAZEL TOKEL Y. D.  
11.ULUSAL KATI ATIK YÖNETİMİ KONGRESİ (UKAY 2023), Ardahan, Turkey, 18 - 21 October 2023
- IV. **SIĞIR GUBRESİ İLE BESLENEN ANAEROBİK FERMENTASYON SİSTEMİNDE KATI ATIK YONETİMİNİN METAN VE HİDROJEN ÜRETİMİ ÜZERİNDEKİ ETKİSİNİN ARAŞTIRILMASI**  
KUTLAR F. E., YILMAZEL TOKEL Y. D.  
11.ULUSAL KATI ATIK YONETİMİ KONGRESİ (UKAY 2023), Ardahan, Turkey, 18 - 21 October 2023
- V. **Nutrient Recovery via Struvite Precipitation Using Sustainable Reagents**  
KUTLAR F. E., Engin I., YILMAZEL TOKEL Y. D.  
4th Democratia-Aqua-Technica Conference, Heidelberg, Germany, 28 - 29 September 2023
- VI. **Adaptation of hyperthermophilic archaeon Geoglobus acetivorans to fermentation waste enhances hydrogen production in microbial electrolysis cells**  
YILMAZEL TOKEL Y. D., TUNCA ÖKTEN B.  
6th European Meeting of the International Society for Microbial Electrochemistry and Technology, Wageningen, Suriname, 6 - 08 September 2023

- VII. **The Effect of Phosphate Buffered Saline (PBS) on Anaerobic Digestion Microbial Electrolysis Cell (AD MEC) Integrated Systems**  
Oden B., YILMAZEL TOKEL Y. D.  
3rd International World Water Day Conference, Heidelberg, Germany, 22 March 2023
- VIII. **Carbon-based conductive materials enhance biomethane recovery from complex organic wastes: a case study on animal manure**  
YILMAZEL TOKEL Y. D.  
Workshop on Anaerobic Digestion and Conductive Materials, Galway, Ireland, 25 November 2022
- IX. **NUTRIENT RECOVERY FROM BIOGAS PLANT EFFLUENTS: AN INDUSTRIAL SYMBIOSIS MODEL**  
Yağcı M., YILMAZEL TOKEL Y. D.  
3rd Democratia Aqua Technica Conferene, Heidelberg, Germany, 29 September 2022
- X. **START-UP STRATEGIES AND PERFORMANCE OF ANAEROBIC DIGESTION-MICROBIAL ELECTROLYSIS CELL INTEGRATED SYSTEMS OF CATTLE MANURE**  
KUTLAR F. E., Sanli M., Ghaderikia A., Bayramoglu T. H., YILMAZEL TOKEL Y. D.  
The International Society for Microbial Electrochemistry and Technology - ISMET8 Global Conference, Chania, Greece, 19 - 23 September 2022
- XI. **Which strategy is better for enhanced digestion of wastewater biosolids? Substrate pre-treatment or application of Anaerobic Digestion-Microbial Electrolysis Cell (AD-MEC) integrated system**  
Sanli M., YILMAZEL TOKEL Y. D.  
The International Society for Microbial Electrochemistry and Technology - ISMET8 Global Conference, Chania, Greece, 19 - 23 September 2022
- XII. **ADAPTATION OF CALDICELLULOSIRUPTOR BESCII TO UNPRETREATED CATTLE MANURE: A NOVEL APPROACH FOR HYPERTHERMOPHILIC BIOHYDROGEN PRODUCTION**  
TUNCA B., YILMAZEL TOKEL Y. D.  
23rd World Hydrogen Energy Conference, İstanbul, Turkey, 26 - 30 June 2022
- XIII. **BIOELECTROCHEMICAL HYDROGEN PRODUCTION FROM DARK FERMENTATION EFFLUENTS IN HYPERTHERMOPHILIC MICROBIAL ELECTROLYSIS CELLS**  
KAŞ A., TUNCA B., YILMAZEL TOKEL Y. D.  
23rd World Hydrogen Energy Conference, İstanbul, Turkey, 26 June 2022
- XIV. **Use of low-cost raw materials for the recovery of phosphorus and nitrogen from biogas plant effluents via struvite crystallization**  
KUTLAR F. E., YILMAZEL TOKEL Y. D.  
9th International Conference on Sustainable Solid Waste Management, Korfu, Greece, 15 June 2022
- XV. **Enhancement of biomethane production from cattle manure by addition of conductive materials**  
Odabaş Y., YILMAZEL TOKEL Y. D.  
9th International Conference on Sustainable Solid Waste Management, Korfu, Greece, 15 - 18 June 2022
- XVI. **The Impact of Conductive Material Amendment on the Performance of Anaerobic Digestion-Microbial Electrolysis Cell (AD-MEC) Systems**  
Ghaderikia A., YILMAZEL TOKEL Y. D.  
9th International Conference on Sustainable Solid Waste Management, KORFU, Greece, 15 - 18 June 2022
- XVII. **İLETKEN MADDELER YARDIMIYLA KONVANSİYONEL ANAEROBİK ÇÜRÜTME SİSTEMİNİN PERFORMANSININ ARTIRILMASI**  
Odabaş Y., YILMAZEL TOKEL Y. D.  
The 14th National and 2nd International Environmental Engineering Congress 2021, Ankara, Turkey, 9 - 12 December 2021
- XVIII. **Effect of applied voltage on co-digestion of cattle manure and wastewater biosolids in Anaerobic Digestion-Microbial Electrolysis Cell (AD-MEC) systems**  
Sanli M., Odabaş Y., Ghaderikia A., YILMAZEL TOKEL Y. D.  
3rd Energy, Efficiency and Environmental Sustainability Conference 2021, La-Serena, Chile, 09 December 2021
- XIX. **Effect of bioelectrode formation on methane production from cattle manure in Anaerobic Digestion - Microbial Electrolysis Cell (AD-MEC) integrated system**

Sanli M., YILMAZEL TOKEL Y. D.

IWA Biofilms Conference 2021, Notre Dam, United States Of America, 6 - 08 December 2021

- XX. **Effect of electro-active biofilm development on the performance of combined anaerobic digester and microbial electrolysis cell (AD-MEC) system**  
KUTLAR F. E., YILMAZEL TOKEL Y. D.  
IWA Biofilms 2021 Conference, Notre Dam, United States Of America, 6 - 08 December 2021
- XXI. **The impact of cathode acclimation methods on electrotrophic biofilm formation and performance of electromethanogenic cells**  
Ghaderikia A., YILMAZEL TOKEL Y. D.  
5th EU International Society for Microbial Electrochemical Technologies (ISMET) Meeting, Girona, Spain, 13 - 15 September 2021
- XXII. **Hyperthermophilic hydrogen production by iron reducing Archaea in microbial electrolysis cells (MECs)**  
KAŞ A., YILMAZEL TOKEL Y. D.  
5th EU International Society for Microbial Electrochemical Technologies (ISMET) Meeting, Girona, Spain, 13 - 15 September 2021
- XXIII. **Effect of applied voltage on co-digestion of cattle manure and wastewater biosolids in Anaerobic Digestion-Microbial Electrolysis Cell (AD-MEC) systems**  
Sanli M., Odabaş Y., Ghaderikia A., YILMAZEL TOKEL Y. D.  
5th EU International Society for Microbial Electrochemical Technologies (ISMET) Meeting, Girona, Spain, 13 - 15 September 2021
- XXIV. **Biohydrogen production from untreated cow manure by hyperthermophilic *Caldicellulosiruptor bescii***  
TUNCA B., KUTLAR F. E., KAŞ A., YILMAZEL TOKEL Y. D.  
4th IWA Resource Recovery Conference, İstanbul, Turkey, 5 - 09 September 2021
- XXV. **Recovery of nutrients via struvite precipitation using waste magnesite powder**  
KUTLAR F. E., YILMAZEL TOKEL Y. D.  
4th IWA Resource Recovery Conference, İstanbul, Turkey, 5 - 08 September 2021
- XXVI. **Investigation of Waste Management Practices in Turkey with a particular focus on Interim Waste Storage Facilities**  
POLAT C., Yıldırım H., Başer B., PİLEVNELİ T., İnce İ., Yanar S. B., Tanrıkulu M., ÜLGÜDÜR N., KÜÇÜK E., DİLEK F. B., et al.  
THESSALONIKI, 2021 Virtual 8TH International Conference on Sustainable Solid Waste Management, Selanik, Greece, 23 - 25 June 2021
- XXVII. **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
- XXVIII. **Electrical current generation in microbial electrolysis cells at hyperthermophilic temperatures**  
YILMAZEL TOKEL Y. D., Holmes D. E., Zhu X., Kim K., Logan B. E.  
International Conference on Technology, Engineering and Science (IConTES), Antalya, Turkey, 26 - 29 October 2017
- XXIX. **Hyperthermophilic hydrogen production from cow manure and its mixture with wastewater biosolids and switchgrass by *Caldicellulosiruptor bescii***  
YILMAZEL TOKEL Y. D., Duran M.  
International Research Conference on Sustainable Energy, Engineering, Materials and Environment, Newcastle, Australia, 26 - 28 July 2017
- XXX. **Energy from waste: A case for anaerobic co-digestion**  
YILMAZEL TOKEL Y. D., Alanya S., Duran M.  
ENTECH '16 / 4th International Energy Technologies Conference, İstanbul, Turkey, 15 - 16 December 2016
- XXXI. **Enhanced "Electromethanogenesis" by enrichment and isolation of hydrogenotrophic methanogens**  
YILMAZEL TOKEL Y. D., Logan B. E.

- The 5th International Meeting on Microbial Electrochemistry and Technologies. International Society for Microbial Electrochemistry and Technologies (ISMET), Tempe, United States Of America, 1 - 04 October 2015
- XXXII. **Enrichment of electrothrophic microorganisms for enhanced electrosynthesis of acetate and methane in microbial electrolysis cells**  
YILMAZEL TOKEL Y. D., Logan B. E.  
Association of Environmental Engineering & Science Professors (AEESP) Research and Education Conference, New Haven, United States Of America, 13 - 15 June 2015
- XXXIII. **Nutrient Removal and Recovery from Anaerobic Digester Effluent by Struvite Precipitation**  
UYSAL A., YILMAZEL TOKEL Y. D., Demirer G. N.  
VIII. National Congress of Environmental Engineering, Antalya, Turkey, 12 - 14 November 2014
- XXXIV. **Methanogenic Archaea community structure in full-scale anaerobic processes**  
YILMAZ V., İNCE E., YILMAZEL TOKEL Y. D., Duran M.  
Biogas Science, Viyana, Austria, 26 - 30 October 2014
- XXXV. **A Caldicellulosiruptor bescii based hyperthermophilic bioprocess for hydrogen production from manure**  
YILMAZEL TOKEL Y. D., Duran M.  
IWA 4th European Conference on Sludge Management, İzmir, Turkey, 26 - 28 May 2014
- XXXVI. **Utilization of Untreated Switchgrass by the Extreme Thermophile Caldicellulosiruptor bescii DSM 6725**  
YILMAZEL TOKEL Y. D., Duran M.  
American Society for Microbiology 114th General Meeting, Boston, United States Of America, 17 - 20 May 2014
- XXXVII. **Modeling competition among acetoclastic methanogenic species during anaerobic digestion of municipal biosolids**  
Figdore B., YILMAZ V., YILMAZEL TOKEL Y. D., Duran M.  
3rd International Conference „Ecology of Urban Areas 2013, Serbia, 11 October 2013
- XXXVIII. **Potential for Methane Production from Anaerobic Co-digestion of Cheese Whey Samples with Sewage Sludge**  
YILMAZEL TOKEL Y. D., Alanya S., Park C., Eschborn R., Williams M., Duran M.  
International IWA-Symposium on Anaerobic Digestion of Solid Waste and Energy Crops, Viyana, Austria, 28 August - 01 September 2011
- XXXIX. **Struvite precipitation from anaerobic co-digestion residues of poultry manure and maize silage**  
YILMAZEL TOKEL Y. D., Demirer G. N.  
Efficient and safe production processes in sustainable agriculture and forestry, XXXIV CIOSTA CIGR V Conference, Viyana, Austria, 29 June - 01 July 2011
- XL. **Anaerobic Co-digestion of Sewage Sludge and Primary Clarifier Skimmings for Increased Biogas Production**  
Alanya S., YILMAZEL TOKEL Y. D., Park C., J L W., J K., Kohl P. M., Hunt J. A., Duran M.  
International IWA-Symposium on Anaerobic Digestion of Solid Waste and Energy Crops, Viyana, Austria, 28 August - 01 September 2011
- XLI. **Recovery of nutrients from anaerobic co-digestion effluents of poultry manure and sewage sludge as struvite**  
YILMAZEL TOKEL Y. D., UYSAL A., Demirer G. N.  
IWA, WEF, Nutrient Recovery and Management Conference, Miami, United States Of America, 9 - 12 January 2011
- XLII. **Phosphorus Recovery Potential in Anaerobic Digestion Residues**  
YILMAZEL TOKEL Y. D., Morgenschweis C., Mutlu G., Antakyalı D., Steinmetz H., Demirer G. N.  
IWA, WEF, Nutrient Recovery and Management Conference, Miami, United States Of America, 9 - 12 January 2011
- XLIII. **Modelling of Struvite Precipitation Experiments Conducted in Synthetic Solutions and Different Anaerobic Digester Effluents by Using the Geochemical Model PhreeqC**  
Morgenschweis C., YILMAZEL TOKEL Y. D., Mutlu G., Antakyalı D., Steinmetz H., Demirer G. N.  
IWA Sustainable Solutions for Small Water and Wastewater Treatment Systems, Girona, Spain, 19 - 21 April 2010
- XLIV. **ODTÜ ÇEVRE MÜHENDİSLİĞİ BÖLÜM LABORATUVAR ATIK YÖNETİM SİSTEMİ (LAYS) UYGULAMASI**

DOĞAN E., GEDİK K., KAYA D., KOCABAŞ A. M., U MAY G. ÖZKAN-YÜCEL U. G., YILMAZ Ö., YILMAZEL TOKEL Y. D., Demirer G. N.

Çevre Sorunları Sempozyumu Kocaeli 2008, Kocaeli, Turkey, 14 May 2008, pp.479-487

## Supported Projects

YILMAZEL TOKEL Y. D., BAT E., Project Supported by Higher Education Institutions, Elektrostatik floklama yöntemi ile hazırlanan elektrotların biyoelektrokimyasal proseslerde hidrojen ve metan üretimi için kullanımı, 2023 - Continues

ÇULFAZ EMECEN P. Z., YILMAZEL TOKEL Y. D., Project Supported by Higher Education Institutions, Akışkan Yataklı Anaerobik Membran Biyoreaktörlerde Kıvrımlı Kovuklu Elyaf Membranların Membran Kirlenmesi ve Reaktör Performansına Etkisinin İncelenmesi, 2022 - Continues

YILMAZEL TOKEL Y. D., ÖDEN B., Project Supported by Higher Education Institutions, Tampon kullanımının ve elektrodun AÇMEH sistemlerinde metan üretimine etkisi, 2023 - 2024

YILMAZEL TOKEL Y. D., TUNCA B., Project Supported by Higher Education Institutions, Sığır gübresinden hipertermofilik koşullarda yüksek verimle biyohidrojen eldesi, 2022 - 2023

Yılmazel Tokel Y. D., Newton Programme Project, Biyogaz Tesisi Atıklarından Nutrient Geri Kazanımı ve Yüksek Değerli Gübre Üretimi , 2020 - 2023

YILMAZEL TOKEL Y. D., Project Supported by Higher Education Institutions, Elektrometanojenik reaktörlerde inek gübresinden metan eldesi, 2021 - 2022

YILMAZEL TOKEL Y. D., KAŞ A., Project Supported by Higher Education Institutions, Karanlık Fermentasyon Çıkış Sularında Biyoelektrokimyasal Reaktörler ile Enerji Eldesi, 2019 - 2022

Yılmazel Tokel Y. D., Project Supported by Private Organizations in Other Countries, Development of a two-stage hydrogen production process from agro wastes by combining hyperthermophilic dark fermentation with a microbial electrolysis cell, 2019 - 2022

Yetiş Ü., Dilek F. B., Yılmazel 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

Yılmazel Tokel Y. D., Project Supported by Other Private Institutions, Biohydrogen production from waste biomass, 2019 - 2020

Yılmazel Tokel Y. D., Yılmaz T., Technopark, Fırat Dicle Havzası Kuraklık Yönetim Planı , 2018 - 2019

## Memberships / Tasks in Scientific Organizations

The International Society for Microbial Electrochemistry and Technology, Member, 2021 - Continues, United States Of America

European Federation of Biotechnology, Member, 2020 - Continues, Spain

## Scientific Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, November 2021

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, October 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2021



TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, June 2021

WATER SCIENCE AND TECHNOLOGY, SCI Journal, May 2021

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., Democratia-Aqua-Technica, Scientific Congress, Heidelberg, Germany, Ekim 2021

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 Arastırma Grubu , Orta Doğu Teknik Üniversitesi, Turkey, [www.yasemindilsad.com](http://www.yasemindilsad.com) , 2019 - Continues

## **Metrics**

Publication: 65

Citation (WoS): 475

Citation (Scopus): 537

H-Index (WoS): 10

H-Index (Scopus): 11

## **Congress and Symposium Activities**

Democratia-Aqua-Technica, Attendee, Heidelberg, Germany, 2020

3rd Meeting of the North American branch of the International Society for Microbial Electrochemistry and Technology,

Invited Speaker, California, United States Of America, 2016

## **Invited Talks**

Workshop on Anaerobic Digestion and Conductive Materials, Workshop, University of Galway, Ireland, November 2022

Democratia-Aqua-Technica, Conference, School of Engineering and Architecture SRH Hochschule Heidelberg, Germany,

September 2021

SUSTAINABLE WASTEWATER MANAGEMENT AND RESOURCE RECOVERY SYSTEMS THROUGH NOVEL ANAEROBIC AND BIOELECTROCHEMICAL PROCESSES, Conference, Germany, September 2020

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

Microbial Electrochemical Technologies at Hyperthermophilic and Thermophilic Temperatures, Seminar, Pennsylvania State University, United States Of America, June 2018

## **Scholarships**

2232 Yurda Dönüş Kariyer Bursu, TÜBİTAK, 2019 - 2021

Yurtici Yüksek Lisans Bursu , TÜBİTAK, 2007 - 2009

## **Awards**

Yılmazel Tokel Y. D., Yılın Genç Bilim İnsanı Ödülü, , Bilim Akademisi Bagep, April 2022

Yılmazel Tokel Y. D., Kutlar F. E., Outstanding Presentation Award , International Water Association , December 2021

Kiriş E., Askan Gündoğan A., Yılmazel Tokel Y. D., Research Encouragement Award, Odtü Prof. Dr. Mustafa N.Parlar Eğitim Ve Araştırma Vakfı, December 2018