

## Arş. Gör. Dr. Öznur YILDIRIM İLTER

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Yoksis Araştırmacı ID: [293389](https://yoksis.gov.tr/yoksis/arastrmaci/293389)

### Eğitim Bilgileri

Doktora, Yıldız Teknik Üniversitesi, İnşaat Fakültesi, Çevre Müh.Bölümü, Türkiye 2020 - 2023

Yüksek Lisans, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Bilimleri Mühendisliği Ve Yönetimi Programı, Türkiye 2017 - 2020

Lisans, İstanbul Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği, Türkiye 2012 - 2017

### Araştırma Alanları

Çevre Teknolojisi, Yenilenebilir Enerji, Biyoteknolojik Prosesler ve Fermentasyon Teknolojisi

### Akademik Unvanlar / Görevler

Araştırma Görevlisi, Yıldız Teknik Üniversitesi, İnşaat Fakültesi, Çevre Müh.Bölümü, 2018 - Devam Ediyor

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- Enhancing fermentation yield for biohydrogen production using eco-friendly nickel and cobalt ferrite nanoparticles**  
YILDIRIM Ö., ÖZKAYA B.  
Biomass Conversion and Biorefinery, 2024 (SCI-Expanded)
- Prediction of biogas production of industrial scale anaerobic digestion plant by machine learning algorithms**  
YILDIRIM Ö., ÖZKAYA B.  
Chemosphere, cilt.335, 2023 (SCI-Expanded)
- Optimization of enzymatic hydrolysis conditions of chemical pretreated cotton stalk using response surface methodology for enhanced bioethanol production yield**  
Yıldırım Ö., Tunay D., Özkaya B.  
BIOMASS CONVERSION AND BIOREFINERY, cilt.13, sa.8, ss.6623-6634, 2023 (SCI-Expanded)
- Effect of nanoparticles synthesized from green extracts on dark fermentative biohydrogen production**  
YILDIRIM Ö., ÖZKAYA B.

Biomass and Bioenergy, cilt.170, 2023 (SCI-Expanded)

- V. **Energy-efficient biogas production from co-digestion of food waste and sewage sludge via kinetic modeling and exergy analyses**  
TUNAY D., YILDIRIM Ö., ÖZKAYA B.  
Environment, Development and Sustainability, 2023 (SCI-Expanded)
- VI. **Assessment of biomethane potential of cotton stalk using response surface methodology**  
YILDIRIM Ö., Altınbaş M., ÖZKAYA B.  
International Journal of Global Warming, cilt.31, sa.1, ss.14-29, 2023 (SCI-Expanded)
- VII. **Effect of organic fraction of municipal solid waste addition to high rate activated sludge system for hydrogen production from carbon rich waste sludge**  
TUNAY D., YILDIRIM Ö., ÖZKAYA B., DEMİR A.  
International Journal of Hydrogen Energy, cilt.47, sa.62, ss.26284-26293, 2022 (SCI-Expanded)
- VIII. **Optimization of oxalic and sulphuric acid pretreatment conditions to produce bio-hydrogen from olive tree biomass**  
YILDIRIM Ö., TUNAY D., ÖZKAYA B., DEMİR A.  
International Journal of Hydrogen Energy, cilt.47, sa.62, ss.26316-26325, 2022 (SCI-Expanded)
- IX. **Effect of Green synthesized silver oxide nanoparticle on biological hydrogen production**  
YILDIRIM Ö., TUNAY D., ÖZKAYA B., DEMİR A.  
International Journal of Hydrogen Energy, cilt.47, ss.19517-19525, 2022 (SCI-Expanded)
- X. **Evaluation of the biogas potential of mucilage formed in the Marmara Sea**  
YILDIRIM Ö., ÖZKAYA B., DEMİR A.  
International Journal of Hydrogen Energy, cilt.47, ss.15456-15463, 2022 (SCI-Expanded)
- XI. **Determination of photoautotrophic growth and inhibition kinetics by the Monod and the Aiba models and bioenergetics of local microalgae strain**  
TUNAY D., YILDIRIM Ö., ÖZKAYA B., DEMİR A.  
Chemosphere, cilt.292, 2022 (SCI-Expanded)
- XII. **Reuse of sea water reverse osmosis brine to produce Dunaliella salina based 0-carotene as a valuable bioproduct: A circular bioeconomy perspective**  
Yıldırım Ö., Tunay D., Özkaya B.  
JOURNAL OF ENVIRONMENTAL MANAGEMENT, cilt.302, 2022 (SCI-Expanded)
- XIII. **Statistical optimization of dilute acid pretreatment of lignocellulosic biomass by response surface methodology to obtain fermentable sugars for bioethanol production**  
YILDIRIM Ö., ÖZKAYA B., Altınbaş M., DEMİR A.  
International Journal of Energy Research, cilt.45, ss.8882-8899, 2021 (SCI-Expanded)
- XIV. **Recent advances in the pretreatment of lignocellulosic biomass for enhanced biofuel production**  
YILDIRIM Ö., SONGÜR R., BAYRAKTAR E., DEMİR A., ÖZKAYA B.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, cilt.22, sa.3, ss.342-374, 2020 (SCI-Expanded)

## **Kitap & Kitap Bölümleri**

- I. **SUSTAINABLE ETHANOL PRODUCTION FROM LIGNOCELLULOSIC BIOMASS: A WATER FOOTPRINT ANALYSIS OVER PRE-TREATMENT TECHNOLOGIES**  
Yildirim Ö., Tunay D., Özkaya B., Demir A.  
Bioethanol Biochemistry and Biotechnological Advances, Ayerim Y.Hernandez Almanza,Nagamani Balagurusamy,Hector A.Ruiz,Cristobal N.Aguilar, Editör, Apple Academic Press, Burlington, ss.401-419, 2022

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Comparison of Thermal and Biological Hydrogen Production Systems from Municipal Solid Waste in**

## **terms of Energy Productivity and Carbon Release**

Tunay D., Yıldırım Ö., Özkaya B., Demir A.

6th International TECHNOLOGIES HYDROGEN Congress, Çanakkale, Türkiye, 23 - 26 Ocak 2022, ss.363-364

### **II. Effect of Nickel Ferrite and Cobalt Ferrite Nanoparticles on Dark Fermentation**

Yıldırım Ö., Özkaya B., Demir A.

5th International Hydrogen Technologies Congress (IHTEC-2022), 23 - 26 Ocak 2022, ss.336-338

### **III. Effect of Green Synthesized Silver Oxide Nanoparticles on Biological Hydrogen Production**

Yıldırım Ö., Tunay D., Özkaya B., Demir A.

International Hydrogen Technologies Congress (5th IHTEC), 26 - 28 Mayıs 2021, ss.52-54

### **IV. Optimization of Pretreatment of Olive Tree Biomass using Response Surface Methodology for Biological Hydrogen Production**

Yıldırım Ö., Tunay D., Özkaya B., Demir A.

International Hydrogen Technologies Congress (5th IHTEC), 26 - 28 Mayıs 2021, ss.255-256

### **V. Effect of Organic Fraction of Municipal Solid Waste Addition to High Rate Activated Sludge System for Hydrogen Production from Carbon Rich Waste Sludge**

Tunay D., Yıldırım Ö., Özkaya B., Demir A.

5th International Hydrogen Technologies, Niğde, Türkiye, 26 - 28 Mayıs 2021, ss.232-233

### **VI. Enhanced Bioethanol Production from Olive Tree Biomass with Different Pretreatment Methods**

Yıldırım Ö., Tunay D., Özkaya B., Demir A.

3rd Bioenergy Studies Symposium, 20 - 21 Mayıs 2021, ss.18

### **VII. Application of Thermal Conversion Process to Major Solid and Wet Wastes of Istanbul City**

Çallıalp F., Teymur S., Bostan D., Yıldırım Ö., Tunay D., Civelek Yörüklü H., Özkaya B.

WESCE 2019, İstanbul, Türkiye, 26 - 28 Ağustos 2019

### **VIII. Determination of hydrogen and methane production from biological sludge based on energy equivalence and environmental impacts**

TUNAY D., YILDIRIM Ö., KÖROĞLU E. O., ÖZKAYA B.

4. International Hydrogen Technologies Congress-IHTEC 2019, 20 - 23 Haziran 2019, sa.309

### **IX. Feasibility of Biological Hydrogen and Alcohol Production from Sunflower Straw**

Yıldırım Ö., Civelek Yörüklü H., Tunay D., Köroğlu E. O., Özkaya B., Demir A.

International Hydrogen Technologies Congress, Edirne, Türkiye, 20 - 23 Haziran 2019, sa.315, ss.109

## **Desteklenen Projeler**

DEMİR A., KÖROĞLU E. O., CİVELEK YÖRÜKLÜ H., ÖZKAYA B., YILDIRIM Ö., BAYRAKTAR E., SONGÜR R., Yükseköğretim Kurumları Destekli Proje, Lignoselülozik Atıklardan ABE Fermantasyonu ile Etanol ve Bütanol Üretimi, 2019 - 2021  
Altınbaş M., Koyuncu İ., TÜBİTAK Projesi, Kanal Tipi Membran Fotobiyoreaktör Sistemi İle Anaerobik Çürütücü Çıkış Suyunda Mikroalg Üretimi, 2016 - 2018

## **Metrikler**

Yayın: 24

Atıf (WoS): 16

Atıf (Scopus): 152

H-İndeks (WoS): 2

H-İndeks (Scopus): 8