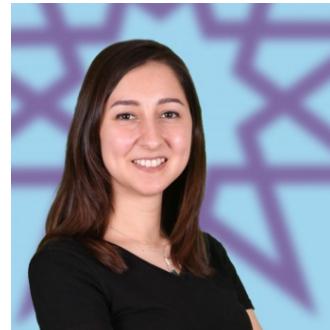


# Res. Asst. PhD Hülya CİVELEK YÖRÜKLÜ

## Personal Information

Email: hcivelek@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/hcivelek>



## International Researcher IDs

ORCID: 0000-0002-3292-7084

Publons / Web Of Science ResearcherID: AAZ-8784-2020

Yoksis Researcher ID: 38123

## Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Çevre Mühendisliği, Turkey 2014 - 2020

Postgraduate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği / Çevre Biyoteknolojisi, Turkey 2012 - 2014

Undergraduate, Marmara University, Faculty Of Engineering, Çevre Mühendisliği, Turkey 2008 - 2012

## Dissertations

Doctorate, Kıyılardan Toplanan Makroalglerin Faydalı Ürün Olarak Değerlendirilmesi: İstanbul Örneği, Yıldız Technical University, Faculty of Civil Engineering, Department Of Environmental Engineering, 2020

Postgraduate, Biodegradability of Diclofenac under aerobic conditions, İstanbul Teknik Üniversitesi, Çevre Mühendisliği, Çevre Biyoteknolojisi, 2014

## Research Areas

Environmental Engineering, Environmental Technology, Waste Water Collection and Treatment, Solid Waste Engineering and Management, Engineering and Technology

## Academic Titles / Tasks

Research Assistant PhD, Yıldız Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering, 2020 - Continues

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

- I. Boron-based hydrogen storage materials for highly selective hydrogenation to liquid organic hydrogen carriers synthesis focus on formic acid  
Ülgen B. E., Coşkuner Filiz B., Açıkalın K., Civelek Yörükü H., Kantürk Figen A.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.00, no.000, pp.1-11, 2024 (SCI-Expanded)
- II. A Kinetic Study on Chronic Response of Activated Sludge to Diclofenac by Respirometry

- Civelek Yörüklü H., Topuz E., Aydin E., Çokgör E., Zengin Balci G. E.  
Water (Switzerland), vol.16, no.20, 2024 (SCI-Expanded)
- III. Multi-criteria decision framework for catalyst selection: Production of formic acid as a circular liquid organic hydrogen carrier in the hydrogen economy**  
Noyan Tekeli F., Coşkuner Filiz B., Civelek Yörüklü H., Kantürk Figen A.  
Journal of Cleaner Production, vol.452, 2024 (SCI-Expanded)
- IV. Enrichment, characterization, and sand consolidation application of urease active calcite-producing bacteria**  
Kosma E. B., Manav Demir N., Civelek Yörüklü H., Özka B.  
Environmental science and pollution research international, vol.31, no.2, pp.2466-2480, 2024 (SCI-Expanded)
- V. Boron-based hydrogen storage materials towards Power-to-X technology on the path to carbon neutrality**  
Coşkuner Filiz B., Civelek Yörüklü H., Açıkalın K., Demirci U. B., Kantürk Figen A.  
International Journal of Hydrogen Energy, vol.48, no.99, pp.39389-39407, 2023 (SCI-Expanded)
- VI. A multi-criteria decision making analysis for feasibility of nanoparticle addition in biohydrogen production enhancement for scaling-up studies**  
Civelek Yörüklü H., Coşkuner Filiz B., Kantürk Figen A., Özka B.  
International Journal of Hydrogen Energy, vol.48, no.60, pp.22865-22874, 2023 (SCI-Expanded)
- VII. Screening of biohydrogen production based on dark fermentation in the presence of nano-sized Fe<sub>2</sub>O<sub>3</sub> doped metal oxide additives**  
Yörüklü H., Filiz B. C., Kantürk Figen A., Özka B.  
International Journal of Hydrogen Energy, vol.47, no.34, pp.15383-15396, 2022 (SCI-Expanded)
- VIII. Biodegradation of microplastic by probiotic bifidobacterium**  
Bozkurt H. S., Civelek Yörüklü H., Bozkurt K., Denktas C., Bozdoğan A., Özdemir O., Özka B.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.26, no.4, pp.429-443, 2022 (SCI-Expanded)
- IX. Optimization of liquid fertilizer production from waste seaweed: A design of experiment based statistical approach**  
Yoruklu H., Özka B., Demir A.  
Chemosphere, vol.286, 2022 (SCI-Expanded)
- X. Biomethane production kinetics of rumen pretreated lignocellulosic wastes**  
Kurt Kara G., Doluk R., Civelek Yörüklü H., Demir A., Özka B.  
CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, vol.23, no.10, pp.2941-2954, 2021 (SCI-Expanded)
- XI. A multicriteria decision analysis for the evaluation of microalgal growth and harvesting**  
Unay E., Özka B., Yoruklu H.  
Chemosphere, vol.279, 2021 (SCI-Expanded)
- XII. Bioenergy production from cotton straws using different pretreatment methods**  
Civelek Yörüklü H., Koroglu E. O., Özdemir O. K., Demir A., Özka B.  
International Journal of Hydrogen Energy, vol.45, pp.34720-34729, 2020 (SCI-Expanded)
- XIII. Kinetic-based extrapolating of methane production potential for seaweed/food waste matrixes**  
Yoruklu H. C., Demir A., Özka B.  
International Journal of Global Warming, vol.21, no.1, pp.86-104, 2020 (SCI-Expanded)
- XIV. The impact of pretreatment and inoculum to substrate ratio on methane potential of organic wastes from various origins**  
Yoruklu H., Korkmaz E., Manav Demir N., Özka B., Demir A.  
JOURNAL OF MATERIAL CYCLES AND WASTE MANAGEMENT, vol.20, pp.800-809, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. IMPLEMENTATION OF AN MS EXCEL TOOL FOR BACKPROPAGATION NEURAL NETWORK ALGORITHM IN ENVIRONMENTAL ENGINEERING EDUCATION**

- DEMİR S., MANAV DEMİR N., KARADENİZ A., CİVELEK YÖRÜKLÜ H.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ,  
vol.36, no.1, pp.251-260, 2018 (ESCI)
- II. AN MS EXCEL TOOL FOR PARAMETER ESTIMATION BY MULTIVARIATE NONLINEAR REGRESSION IN ENVIRONMENTAL ENGINEERING EDUCATION**  
DEMİR S., KARADENİZ A., CİVELEK YÖRÜKLÜ H., MANAV DEMİR N.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ,  
vol.35, no.2, pp.265-273, 2017 (ESCI)

## Books & Book Chapters

- I. The Electromotive-Induced Regulation of Anaerobic Fermentation: Electrofermentation**  
Civelek Yörükü H., Köroğlu E. O., Demir A., Özkaya B.  
in: MICROBIAL ELECTROCHEMICAL TECHNOLOGY SUSTAINABLE PLATFORM FOR FUELS, CHEMICALS AND REMEDIATION, Mohan S.V., Pandey A., Varjani S., Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.739-753, 2019
- II. Scale-Up and Commercialization Issues of the MFCs: Challenges and Implications**  
Köroğlu E. O., Civelek Yörükü H., Demir A., Özkaya B.  
in: MICROBIAL ELECTROCHEMICAL TECHNOLOGY SUSTAINABLE PLATFORM FOR FUELS, CHEMICALS AND REMEDIATION, Mohan S.V., Pandey A., Varjani S., Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.565-580, 2019

## Refereed Congress / Symposium Publications in Proceedings

- I. Selüloz Bazlı Atıklardan Enerji Elde Edilmesinde Buhar Patlatma ile Ön İşlemin Etkisi**  
GÜNDÖĞDU H., KÖSEM E., CİVELEK YÖRÜKLÜ H., ÖZKAYA B.  
Türkiye Katı Atık Yönetimi ve Çevre Sorunları Sempozyumu (TÜRKAY 2022), İstanbul, Turkey, 25 - 26 October 2022, pp.128-129
- II. Yiyecek Atıklarının Biyokimyasal Metan Potansiyelinin Kinetik Modeller Kullanılarak İncelenmesi**  
KOŞMA E. B., CİVELEK YÖRÜKLÜ H., MANAV DEMİR N., ÖZKAYA B.  
Türkiye'de Katı Atık Yönetimi ve Çevre Sorunları Sempozyumu (TÜRKAY), İstanbul, Turkey, 24 - 26 October 2022, pp.133-134
- III. boron-Hydrogen materials towards decarbonization**  
Kurtuluş S., COŞKUNER FİLİZ B., CİVELEK YÖRÜKLÜ H., AÇIKALIN K., FİGEN H. E., Demirci Ü. B., KANTÜRK FİGEN A. 23nd world hydrogen energy conference, İstanbul, Turkey, 26 - 30 June 2022
- IV. Improving sustainable hydrogen production via green pathway: A review of nanoparticles enhancement in dark fermentation**  
CİVELEK YÖRÜKLÜ H., COŞKUNER FİLİZ B., KANTÜRK FİGEN A., ÖZKAYA B.  
6th International Hydrogen Technologies Congress (IHTEC-2022), Çanakkale, Turkey, 23 - 26 January 2022
- V. Biomethane Production Potential of Sunflower Straws: The Case of Turkey**  
Uyaver M. U., Çınar D., CİVELEK YÖRÜKLÜ H., ÖZKAYA B., DEMİR A.  
5th Eurasia Waste Management Symposium, İstanbul, Turkey, 26 - 28 October 2020
- VI. 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 Yörükü H., Özkaya B.  
WESCE 2019, İstanbul, Turkey, 26 - 28 August 2019
- VII. Biohydrogen production from cotton straws using different pretreatment methods: A case study**  
CİVELEK H., KÖROĞLU E. O., DEMİR A., ÖZKAYA B.  
4. International Hydrogen Technologies Congress-IHTEC 2019, 20 - 23 June 2019
- VIII. ENERGY RECOVERY ANALYSIS DURING PRODUCTION OF BIOHYTHANE AND BIOMETHANE FROM**

## **ORGANIC WASTE**

SORGULU K., CİVELEK H., KÖROĞLU E. O., ÖZKAYA B., DEMİR A.

8th Global Conference on Global Warming (GCGW-2019), DOHA, Qatar, 22 - 25 April 2019

**IX. DIFFERENT STATISTICAL MODELS OF BIOCHEMICAL METHANE POTENTIAL (BMP) FOR DIFFERENT SUBSTRATE TO INOCULUM RATIO**

CİVELEK H., KORKMAZ E., MANAV DEMİR N., ÖZKAYA B., DEMİR A.

7TH GLOBAL CONFERENCE on GLOBAL WARMING, 24 - 28 June 2018

**X. BIOENERGY PRODUCTION FROM CHLORELLA VULGARIS AND NANNOCHLOROPSIS OCULATA CULTIVATED IN A PILOT SCALE SYSTEM**

CİVELEK H., Genç T., KÖROĞLU E. O., DEMİR A., ÖZKAYA B.

7th GLOBAL CONFERENCEon GLOBAL WARMING, İzmir, Turkey, 24 - 28 June 2018, pp.114-119

**XI. LIFE CYCLE COST ANALYSIS (LCCA) FOR MICROALGAE PRODUCTION: A CASE STUDY OF PILOT SCALE APPLICATION**

KÖROĞLU E. O., Elçiçek H., CİVELEK H., ÖZKAYA B., DEMİR A.

7th Global Conference on Global Warming (GCGW-2018), İzmir, Turkey, 24 - 28 June 2018

**XII. Pilot Scale Biomethanization Plant: Biogas Optimization and Liquid Fertilizer Production**

CİVELEK H., KÖROĞLU E. O., ÖZKAYA B., DEMİR A.

4th EurAsia Waste Management Symposium (EWMS), 2 - 04 May 2018

**XIII. Investigation of Recovery Applications of Waste Macroalgae**

Demir A. E., Yıldırım A. E., Kemirtlek A., Peker M. F., CİVELEK H., ÖZKAYA B.

EurAsia Waste Management Symposium, 2 - 04 May 2018

**XIV. Chronic Inhibition Effect of Diclofenac on Activated Sludge Systems**

CİVELEK H., OKUTMAN TAŞ D., TOPUZ E., AYDIN E., ÇOKGÖR E., ZENGİN BALCI G. E.

10TH MICROPOL ECOHAZARD, 17 - 20 September 2017

**XV. ANAEROBIC CO-DIGESTION KINETICS OF FOOD WASTE AND MACROALGAE DEPENDING ON INOCULUM TO SUBSTRATE RATIO**

CİVELEK H., DEMİR A., ÖZKAYA B.

2nd International Conference on Viable Energy Trends, Helsinki, Finland, 28 - 30 April 2017

## **Supported Projects**

Kantürk Figen A., Demirci Ü. B., Figen H. E., Açıkalın K., Coşkuner Filiz B., Civelek Yörüklü H., TUBITAK Project, 'Endüstriyel Baca Gazı Uyarlamalı Gaz Karışımlarının Hidrojenasyon İle Değerli Kimyasallara Dönüşürülmüşünde Bor-Hidrojen Bileşiklerinin Kullanımlarının İncelenmesi, 2022 - 2024

Özkaya B., Taşkan E., Other International Funding Programs, Mikrobiyal Yakıt Hücresi İçin Yeni Geliştirilen Elektrot Yüzeyinde Oluşan Ekzoelektron Bakterilerin Biyofilm Karakteristiklerinin İncelenmesi, 2015 - 2017

Okutman Taş D., TUBITAK Project, Diklofenak'ın Evsel Atıksu Arıtma Tesislerindeki Gideriminin Araştırılıp Biyolojik Arıtılabilirliğinin Değerlendirilmesi, 2011 - 2014

## **Metrics**

Publication: 35

Citation (WoS): 38

Citation (Scopus): 107

H-Index (WoS): 4

H-Index (Scopus): 7

## **Non Academic Experience**

