

## Res. Asst. PhD HÜLYA CİVELEK YÖRÜKLÜ

### Personal Information

**Email:** hcivelek@yildiz.edu.tr

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



### Education Information

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

Postgraduate, Istanbul 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. **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**  
Yoruklu H., Filiz B., Figen A. K., Ozkaya B.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.34, pp.15383-15396, 2022 (SCI-Expanded)
- II. **Biodegradation of microplastic by probiotic bifidobacterium**  
Bozkurt H. S., CİVELEK YÖRÜKLÜ H., BOZKURT K., Denktas C., BOZDOĞAN A., ÖZDEMİR O., ÖZKAYA B.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.26, no.4, pp.429-443, 2022 (SCI-Expanded)
- III. **Optimization of liquid fertilizer production from waste seaweed: A design of experiment based statistical approach**

Yoruklu H., ÖZKAYA B., DEMİR A.

Chemosphere, vol.286, 2022 (SCI-Expanded)

- IV. **A multi-criteria decision making analysis for feasibility of nanoparticle addition in biohydrogen production enhancement for scaling-up studies**  
ÇİVELEK YÖRÜKLÜ H., COŞKUNER FİLİZ B., KANTÜRK FİGEN A., ÖZKAYA B.  
International Journal of Hydrogen Energy, 2022 (SCI-Expanded)
- V. **Biomethane production kinetics of rumen pretreated lignocellulosic wastes**  
Kurt Kara G., Doluk R., ÇİVELEK YÖRÜKLÜ H., DEMİR A., ÖZKAYA B.  
CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, vol.23, no.10, pp.2941-2954, 2021 (SCI-Expanded)
- VI. **A multicriteria decision analysis for the evaluation of microalgal growth and harvesting**  
Unay E., ÖZKAYA B., Yoruklu H.  
Chemosphere, vol.279, 2021 (SCI-Expanded)
- VII. **Bioenergy production from cotton straws using different pretreatment methods**  
Civelek Yörüklü H., Koroglu E. O., Özdemir O. K., Demir A., Özkaya B.  
International Journal of Hydrogen Energy, vol.45, pp.34720-34729, 2020 (SCI-Expanded)
- VIII. **Kinetic-based extrapolating of methane production potential for seaweed/food waste matrixes**  
Yoruklu H. C., DEMİR A., ÖZKAYA B.  
International Journal of Global Warming, vol.21, no.1, pp.86-104, 2020 (SCI-Expanded)
- IX. **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., Özkaya 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., ÇİVELEK YÖRÜKLÜ H.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, 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., ÇİVELEK YÖRÜKLÜ H., MANAV DEMİR N.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.35, no.2, pp.265-273, 2017 (ESCI)

## Books & Book Chapters

- I. **The Electromotive-Induced Regulation of Anaerobic Fermentation: Electrofermentation**  
Civelek Yörüklü H., Köroğlu E. O., Demir A., Özkaya B.  
in: MICROBIAL ELECTROCHEMICAL TECHNOLOGYSUSTAINABLE 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 Yörüklü H., Demir A., Özkaya B.  
in: MICROBIAL ELECTROCHEMICAL TECHNOLOGYSUSTAINABLE 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. **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
- II. **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, Turkey, 26 - 28 August 2019
- III. **Feasibility of biological hydrogen and alcohol production from sunflower straw**  
YILDIRIM Ö., CİVELEK H., TUNAY D., KÖROĞLU E. O., ÖZKAYA B., DEMİR A.  
4. International Hydrogen Technologies Congress-IHTEC 2019, 20 - 23 June 2019
- IV. **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
- V. **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
- VI. **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
- VII. **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 CONFERENCE on GLOBAL WARMING, İzmir, Turkey, 24 - 28 June 2018, pp.114-119
- VIII. **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
- IX. **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
- X. **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

MANAV DEMİR N., OKTAY D., CİVELEK YÖRÜKLÜ H., KOŞMA E. B., Project Supported by Higher Education Institutions, Atıklardan enerji üretimi esnasında açığa çıkan CO<sub>2</sub>'nin gideriminde MICP prosesinin değerlendirilmesi ile CaCO<sub>3</sub> üretimi ve yapı malzemesi olarak kullanımı, 2021 - Continues

CİVELEK YÖRÜKLÜ H., Project Supported by Higher Education Institutions, Farklı Ekstraksiyon Metotları Kullanılarak Üretilen Nanopartiküllerin Boyar Madde Gideriminde Kullanımının İncelenmesi, 2021 - Continues

KANTÜRK FİĞEN A., Özdemir S., CİVELEK YÖRÜKLÜ H., Project Supported by Higher Education Institutions, Nano boyutlu poroz katalizörlerin sentezlenmesi ve atık sulardan aromatik aminlerin gideriminde kullanımlarının incelenmesi, 2021 - Continues

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

ÖZÇİMEN D., ÇELEBİ U. B., SARI ERKAN H., BOZKURT K., BİLGİLİ M. S., AYAT AYDOĞAN B., CİVELEK YÖRÜKLÜ H., DEMİR Ö., VARDAR N., Project Supported by Higher Education Institutions, Marmara Denizinde Ortaya Çıkan Müsilaj İçeriğinin Örneklenmesi Karakterizasyonu ve Tanımlanması ile Geniş Perspektifli Çözüm Üretmek İçin Üniversite Araştırma Altyapısının Değerlendirilmesi, 2021 - 2021

DEMİR A., KÖROĞLU E. O., CİVELEK YÖRÜKLÜ H., ÖZKAYA B., YILDIRIM Ö., BAYRAKTAR E., SONGÜR R., Project Supported by Higher Education Institutions, Lignoselülozik Atıklardan ABE Fermantasyonu ile Etanol ve Bütanol Üretimi, 2019 - 2021

Özkaya B., Taşkan E., Other Supported Projects, Mikrobiyal Yakıt Hücreleri İçin Yeni Geliştirilen Elektrot Yüzeyinde Oluşan Ekzoelektrojen Bakterilerin Biyofilm Karakteristiklerinin İncelenmesi, 2015 - 2017

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

## Metrics

Publication: 24  
Citation (WoS): 40  
Citation (Scopus): 29  
H-Index (WoS): 4  
H-Index (Scopus): 3