

# ÖMER APAYDIN

## ASSOC. PROF.

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ESENLER/İSTANBUL/TÜRKİYE

### International Researcher IDs

ScholarID: TFvZfE0AAAAJ

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Publons / Web Of Science ResearcherID: AAR-5683-2020

ScopusID: 9250861100

Yoksis Researcher ID: 173747

## Education

Doctorate 1998 - 2004	Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Çevre Mühendisliği , Turkey
Postgraduate 1994 - 1998	Karadeniz Technical University, Fen Bilimleri Enstitüsü, İnşaat Mühendisliği, Turkey
Undergraduate 1989 - 1993	Yildiz Technical University, Faculty Of Civil Engineering, Çevre Mühendisliği, Turkey

## Foreign Languages

English, B2 Upper Intermediate

French, A2 Elementary

## Certificates, Courses and Trainings

Quality Management, ISO 9001:2015 Kalite Yönetim Sistemi İç Denetçi Eğitimi, Yıldız Teknik Üniversitesi, 2018  
Environment and Sustainability, Erozyon Eğitim Kursu, TEMA-Türkiye Erozyonla Mücadele, Ağaçlandırma ve Doğal Varlıkları Koruma Vakfı, 1996

Foreign Language, Lisansüstü İngilizce Hazırlık Programı, Karadeniz Teknik Üniversitesi, 1994

Vocational Training, Çevresel Etki Değerlendirmesi Eğitim Programı, Türkiye Çevre Vakfı, 1994

## Dissertations

Doctorate, Geographic information system (GIS) supported optimization of solid waste management alternatives for the city of Trabzon, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, 2004

Postgraduate, Examination of solid waste disposal methods and determination of the amount of recyclable material from the municipal solid wastes of Trabzon city, Karadeniz Technical University, Fen Bilimleri Enstitüsü, 1998

## Academic Titles / Tasks

Associate Professor 2014 - Continues	Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering
Assistant Professor 2007 - 2014	Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering
Assistant Professor 2011 - 2011	University of Wisconsin-Madison, Civil And Environmental Eng, Geological Eng
Research Assistant PhD 2004 - 2007	Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering
Research Assistant 1998 - 2004	Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering
Research Assistant 1996 - 1998	Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği

## Supported Projects

1. Apaydın Ö., Technopark, Setaş Kimya Sanayi nin Boyarmadde ve Kimyasal Üretiminden Kaynaklı Atıksuları İçin Ekonomik Entegre Artıma Alternatiflerinin Araştırılması, 2018 - 2019
2. Apaydın Ö., Çakmakçı M., Project Supported by Other Official Institutions, ATIKSU ARITIMI EYLEM PLANI (2015-2023), 2014 - 2015
3. APAYDIN Ö., Project Supported by Higher Education Institutions, Birleşik Ultrases ve Sıfır Değerlikli Metal Partikülleri (Al<sub>2</sub>O<sub>3</sub> ve MgO) İle Yeraltı Sularında Nitratın Kimyasal Denitrifikasyonu, 2013 - 2015
4. APAYDIN Ö., Project Supported by Higher Education Institutions, Evsel Katı Atıkların Vermikompost Yöntemiyle Stabilizasyonu, 2012 - 2015
5. Ayyıldız Ö., Apaydın Ö., TUBITAK Project, Birleşik Ultrases ve Sıfır Yüklü Magnezyum (MgO) ile Yeraltı Sularında Nitratın İndirgenmesi, 2012 - 2013
6. Anar İ., Selçuk H., Bekbölet F. M., Palamutçu S., Apaydın Ö., TUBITAK Project, Tekstil proseslerinde; geri dönüşüm ve proses kalitesine etkilerinin plot ölçekte araştırılması ve kurulması, 2011 - 2013
7. Gönüllü M. T., Apaydın Ö., Kurt U., Arslankaya E., İlhan F., TUBITAK Project, Sızıntı Sularının Elektrokoagülasyon Yöntemiyle Arıtılması, 2006 - 2008
8. Apaydın Ö., Project Supported by Higher Education Institutions, Katı atık toplama/taşıma işlemlerinde araç normal sürüş ve dönüşlerinin yakıt sarfiyatına etkilerinin araştırılması, 2005 - 2006
9. GÖNÜLLÜ M. T., APAYDIN Ö., Other International Funding Programs, Atıksuların elektrofenton yöntemiyle arıtlabilirliği, 2005 - 2006
10. GÖNÜLLÜ M. T., APAYDIN Ö., Other International Funding Programs, Katı atık yönetiminde coğrafi bilgi sistemi destekli optimizasyon: Trabzon modeli, 2004 - 2004
11. Apaydın Ö., Kalender A., Other International Funding Programs, Trabzon Kenti evsel katı atıklarından gerikazanılabilir madde potansiyelinin araştırılması, 1997 - 1998

## Awards

1. Apaydın Ö., Yayın Teşvik Ödülü, Tübitak, September 2023
2. Apaydın Ö., Üçüncülük Ödülü (En Çok SCI Yayını yapan Yardımcı Doçent ), Yıldız Teknik Üniversitesi , October 2007

## Scholarships

Yurtdışına Gönderilecek Öğretim Üyelerine Yükseköğretim Kurulu Tarafından Sağlanacak Destek kapsamında, YOK, 2011 - 2011

KYK Öğrenim Kredisi ve Harç kredisi, Other Government Agencies, 1989 - 1993

## Jury Memberships

Post Graduate, Post Graduate, Aksaray Üniversitesi, August, 2020

Post Graduate, Post Graduate, Aksaray Üniversitesi, August, 2020

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi-Cerrahpaşa, July, 2020

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi-Cerrahpaşa, January, 2020

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi-Cerrahpaşa, January, 2020

Post Graduate, Post Graduate, İstanbul Üniversitesi-Cerrahpaşa, September, 2019

Post Graduate, Post Graduate, İstanbul Üniversitesi-Cerrahpaşa, July, 2019

Post Graduate, Post Graduate, İstanbul Üniversitesi-Cerrahpaşa, January, 2019

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, January, 2019

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi-Cerrahpaşa, March, 2018

Post Graduate, Post Graduate, Çanakkale Onsekiz Mart Üniversitesi, January, 2016

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

1. **Deciding on the priority of process parameters using the analytical hierarchy process in electrochemical wastewater treatment and investigation of paint wastewater treatability**  
APAYDIN Ö.  
Desalination and Water Treatment, vol.320, 2024 (SCI-Expanded)
2. **Investigation of the synergistic effect of the Fenton process on the paint industry wastewater treatment and optimization of independent process parameters**  
APAYDIN Ö., KURT U., İLHAN F.  
Desalination and Water Treatment, vol.308, pp.68-79, 2023 (SCI-Expanded)
3. **Analysis of Municipal Solid Waste Collection Methods Focusing on Zero-Waste Management Using an Analytical Hierarchy Process**  
APAYDIN Ö., Akçay Han G. S.  
Sustainability (Switzerland), vol.15, no.17, 2023 (SCI-Expanded)
4. **Investigation of the treatability of paint industry wastewater using hybrid coagulant poly-aluminum-chloride-sulfate**  
Apaydın Ö., Kurt U., İlhan F.  
Desalination and Water Treatment, vol.286, pp.81-89, 2023 (SCI-Expanded)
5. **Landfill leachate treatment with electrocoagulation: optimization by using Taguchi method**  
Apaydın Ö., Özkan E.  
DESALINATION AND WATER TREATMENT, vol.173, pp.65-76, 2020 (SCI-Expanded)
6. **Ultrasound-assisted activation of zero-valent magnesium for nitrate denitrification: Identification of reaction by-products and pathways**  
İleri B., Ayyıldız Ö., Apaydın Ö.  
JOURNAL OF HAZARDOUS MATERIALS, vol.292, pp.1-8, 2015 (SCI-Expanded)

7. **Final treatment of young, middle-aged, and stabilized leachates by Fenton process: optimization by response surface methodology**  
Erkan H., Apaydın Ö.  
DESALINATION AND WATER TREATMENT, vol.54, no.2, pp.342-357, 2015 (SCI-Expanded)
8. **Reduction of COD in Wastewater from A Textile Industry by Electro Fenton Process**  
Apaydın Ö.  
Global Nest Journal, vol.16, no.3, pp.536-542, 2014 (SCI-Expanded)
9. **Investigation of Leachate Treatment with Electrocoagulation and Optimization by Response Surface Methodology**  
Kabuk H. A., İlhan F., Avşar Y., Kurt U., Apaydın Ö., Gonullu M. T.  
CLEAN-SOIL AIR WATER, vol.42, no.5, pp.571-577, 2014 (SCI-Expanded)
10. **Fuzzy-logic modeling of Fenton's strong chemical oxidation process treating three types of landfill leachates**  
Sari H., Yetilmezsoy K., İlhan F., Yazici S., Kurt U., Apaydın Ö.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.20, pp.4235-4253, 2013 (SCI-Expanded)
11. **AN INVESTIGATION ON WASTE AMOUNT FROM SHIPS IN ISTANBUL**  
Dashan E. S., Dashan E. S., Apaydın Ö.  
GLOBAL NEST JOURNAL, vol.15, pp.49-56, 2013 (SCI-Expanded)
12. **ROUTE TIME ESTIMATION OF SOLID WASTE COLLECTION VEHICLES BASED ON POPULATION DENSITY**  
Apaydın Ö., Gönüllü M. T.  
GLOBAL NEST JOURNAL, vol.13, no.2, pp.162-169, 2011 (SCI-Expanded)
13. **AN INVESTIGATION ON THE TREATMENT OF TANNERY WASTEWATER BY ELECTROCOAGULATION**  
Apaydın Ö., Kurt U., Gönüllü M. T.  
GLOBAL NEST JOURNAL, vol.11, no.4, pp.546-555, 2009 (SCI-Expanded)
14. **Treatment of leachate by electrocoagulation using aluminum and iron electrodes**  
İlhan F., Kurt U., Apaydın Ö., Gonullu M. T.  
JOURNAL OF HAZARDOUS MATERIALS, vol.154, pp.381-389, 2008 (SCI-Expanded)
15. **Emission control with route optimization in solid waste collection process: A case study**  
Apaydın Ö., Gönüllü M. T.  
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, vol.33, no.2, pp.71-82, 2008 (SCI-Expanded)
16. **Reduction of COD in wastewater from an organized tannery industrial region by Electro-Fenton process**  
Kurt U., Apaydın Ö., Gönüllü M. T.  
JOURNAL OF HAZARDOUS MATERIALS, vol.143, pp.33-40, 2007 (SCI-Expanded)
17. **Route optimization for solid waste collection: Trabzon (turkey) case study**  
Apaydın Ö., Gönüllü M. T.  
GLOBAL NEST JOURNAL, vol.9, no.1, pp.6-11, 2007 (SCI-Expanded)
18. **Recent years status of sediment bed of Golden Horn (Istanbul) after year 1999**  
Gönüllü M. T., Avşar Y., Apaydın Ö., Bayhan H., Kurt U.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.121, pp.561-569, 2006 (SCI-Expanded)
19. **Primary Productivity in the Golden Horn**  
Gönüllü M. T., Avşar Y., Bayhan H., Şakar S., Arslankaya E., Apaydın Ö., Kurt U.  
Environmental Monitoring And Assessment, vol.109, pp.57-64, 2005 (SCI-Expanded)
20. **A study of organics and their alteration in benthic sediments of golden horn**  
Gönüllü M. T., Bayhan H., Avşar Y., Arslankaya E., Kurt U., Tosun İ., Apaydın Ö.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.12, no.12, pp.1457-1464, 2003 (SCI-Expanded)

## Articles Published in Other Journals

1. **Analysis of the special case of binary separation at source of municipal solid waste with the help of analytical hierarchy process in terms of environmental, economic, social and technical criteria**  
Apaydın Ö.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.31, pp.1-19, 2025 (ESCI)
2. **Waste Glass Management for Bakırköy Municipality A Case Study**  
Anıl P., Apaydın Ö.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.33, no.2, pp.273-285, 2015 (ESCI)
3. **DENITRIFICATION OF NITRATE BY COMBINED ULTRASOUND AND ZERO VALENT MAGNESIUM AT pH CONTROLLED CONDITIONS**  
İleri B., Apaydın Ö., Ayyıldız Ö.  
Sigma J Eng & Nat Sci, vol.33, pp.489-501, 2015 (ESCI)
4. **Geri kazanılabilir katı atıkların kaynakta ayrılması işlemine hane halkı yaklaşımının Beşiktaş ve Üsküdar ilçelerinde araştırılması**  
APAYDIN Ö., Yağcı A., Civelek A.  
SİGMA Mühendislik ve Fen Bilimleri Dergisi, vol.3, no.1, pp.17-26, 2011 (Peer-Reviewed Journal)
5. **A GIS Supported Optimization Application of Solid Waste Collection System in Trabzon City**  
Apaydın Ö.  
Ekoloji, vol.54, pp.1-6, 2005 (Peer-Reviewed Journal)
6. **GIS Supported Optimization of Solid Waste Collection in Trabzon**  
Apaydın Ö., Arslankaya E., Avşar Y., Gönüllü M. T.  
SİGMA Mühendislik ve Fen Bilimleri Dergisi, vol.22, pp.249-254, 2004 (Peer-Reviewed Journal)
7. **Karadeniz'de Çevre Sorunları ve Çözüme Dönük Çabalar**  
Apaydın Ö., Üçüncü O.  
Mühendislik Bülteni, vol.11, no.50, pp.2-5, 1997 (Peer-Reviewed Journal)

## Books

1. **Analysis of Municipal Solid Waste Collection Methods Focusing on Zero-Waste Management Using an Analytical Hierarchy Process**  
Apaydın Ö., Akçay Han G. S.  
in: Prime Archives in Sustainability: 3rd Edition, Maciaszczyk Magdalena, Editor, Vide Leaf, Hyderabad, pp.1-39, 2023

## Academic and Administrative Experience

2024 - Continues	<b>Deputy Head of Department</b>	Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering
2015 - 2019	<b>Assistant Coordinator</b>	Yildiz Technical University, Rectorate, Farabi Exchange Program
2014 - 2018	<b>Chairperson of Department Quality Commission</b>	Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering
2011 - 2012	<b>Deputy Head of Department</b>	Yıldız Teknik Üniversitesi, Çevre Mühendisliği

## Supervised Theses

- Apaydın Ö., Sıfır Atık Yaklaşımı Odaklı Evsel Katı Atık Kaynakta Ayırma Yönetim Alternatiflerinin Beşiktaş İlçesi Özelinde Coğrafi Bilgi Sistemi Destekli Araştırılması, Doctorate, G.AKÇAYHAN(Student), 2024
- Apaydın Ö., Sıfır atık yönetim sisteminin iş sağlığı ve güvenliği kapsamında değerlendirilmesi, Postgraduate, T.YILMAZ(Student), 2023
- Apaydın Ö., Management and determination of quality and quantity of organic wastes originated kitchens of dining hall, Postgraduate, M.Gencosmanogullari(Student), 2019
- Apaydın Ö., Optimization of the treatability of landfill leachate by electrocoagulation using Taguchi Method, Postgraduate, E.ÖZKAN(Student), 2018
- Apaydın Ö., Ayyıldız Ö., Ultrasound and zero-valent metal particles (Al and Mg) for Denitrification of nitrate, Doctorate, B.İLERİ(Student), 2016
- Apaydın Ö., Bakırköy İlçesi Geri Kazanılabilir Katı Atık Yönetimi, Postgraduate, A.PIR(Student), 2013
- Apaydın Ö., Elektrodiyaliz bipolar membran prosesiyle arıtılmış sızıntı suyunun fenton oksidasyonu ile nihai arıtımının değerlendirilmesi, Postgraduate, H.SARI(Student), 2012
- Apaydın Ö., Gemi kaynaklı atıkların yönetimi ve bertarafı, Postgraduate, E.DAŞHAN(Student), 2010

## Scientific Refereeing

- Results in Engineering, National Scientific Refreed Journal, August 2024
- JOURNAL OF ENVIRONMENTAL MANAGEMENT, SCI Journal, January 2023
- ENVIRONMENT PROTECTION ENGINEERING, Journal Indexed in SCI-E, January 2023
- ENVIRONMENTAL MONITORING AND ASSESSMENT, Journal Indexed in SCI-E, June 2021
- TUBITAK Project, 2223 - Domestic Scientific Activities Support Program, Yildiz Technical University, Turkey, August 2020
- JOURNAL OF HAZARDOUS MATERIALS, SCI Journal, July 2020
- TUBITAK Project, 1002 - Quick Support Program, Yildiz Technical University, Turkey, July 2020
- JOURNAL OF HAZARDOUS MATERIALS, SCI Journal, November 2019
- ENVIRONMENTAL MONITORING AND ASSESSMENT, Journal Indexed in SCI-E, October 2019
- TÜRKİYE JEOLJİ BÜLTENİ, National Scientific Refreed Journal, July 2019
- Desalination And Water Treatment, Journal Indexed in SCI-E, July 2019
- Journal of Hazardous Materials, SCI Journal, May 2018
- Journal of Hazardous Materials, SCI Journal, February 2018
- Waste Management, SCI Journal, January 2018
- Project Supported by Higher Education Institutions, BAP Research Project, Yildiz Technical University, Turkey, January 2018
- Journal of Advances in Environmental Health Research, Other Indexed Journal, December 2017
- Journal of Hazardous Materials, SCI Journal, December 2017
- Journal of Advances in Environmental Health Research, Other Indexed Journal, November 2017
- TUBITAK Project, 1002 - Quick Support Program, Yildiz Technical University, Turkey, January 2016
- TUBITAK Project, 1007 - Public Institutions Research and Development Projects DP, y, Turkey, January 2013
- Reviews in Chemical Engineering, SCI Journal, December 2012
- Reviews in Chemical Engineering, SCI Journal, September 2012
- Waste Management, SCI Journal, August 2012
- CLEAN - Soil, Air, Water, SCI Journal, May 2011
- CLEAN - Soil, Air, Water, SCI Journal, April 2011
- Journal of Hazardous Materials, SCI Journal, November 2007
- Journal of Hazardous Materials, SCI Journal, October 2007

## Metrics

Publication: 85

Citation (WoS): 567

Citation (Scopus): 665

H-Index (WoS): 11

H-Index (Scopus): 11

## Research Areas

Environmental Chemistry, Waste Water Collection and Treatment, Environmental Risk Assessment, Industrial and Hazardous Waste Management, Solid Waste Engineering and Management, Water Supply and Treatment

## Non Academic Experience

University, University of Wisconsin Madison, Civil & Environmental Engineering