

## Prof. Alper Erdem YILMAZ

### Personal Information

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### International Researcher IDs

ScholarID: 7qP4GtMAAAAJ

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ScopusID: 42762577800

Yoksis Researcher ID: 45727

### Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği Anabilim Dalı, Turkey 2002 - 2009

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği Anabilim Dalı, Turkey 1999 - 2002

Undergraduate, Ataturk University, Mühendislik Fakültesi, Çevre Mühendiliği, Turkey 1994 - 1999

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, ENDÜSTRİYEL ATIK SULARDAN ELEKTROKOAGÜLASYON YÖNTEMİ İLE BOR GİDERİMİ, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Mühendisliği Anabilim Dalı, 2009

Postgraduate, ENDÜSTRİYEL ATIK SULARDAN İYON DEĞİŞİMİ YÖNTEMİ İLE BOR GİDERİMİ , Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Mühendisliği Anabilim Dalı, 2002

### Research Areas

Environmental Engineering, Environmental Technology, Waste Water Collection and Treatment, Industrial and Hazardous Waste Management, Engineering and Technology

### Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2018 - Continues

Associate Professor, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2013 - 2018

Assistant Professor, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2009 - 2013

Research Assistant, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2001 - 2009

### Academic and Administrative Experience

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2019 - 2020

Manager of Research and Application Center, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2016 - 2020

## Courses

SULARIN ARITILMASI, Undergraduate, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2017 - 2018

SU VE ATIKSU ARITIMINDA ELEKTROKİMYASAL PROSESLER, Doctorate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

DANIŞMANLIK, Postgraduate, 2021 - 2022, 2020 - 2021

DANIŞMANLIK DOKTORA, Doctorate, 2021 - 2022, 2020 - 2021

ÇEVRE MÜHENDİSLİĞİNDE KÜTLE TRANSFERİ UYGULAMALARI, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

SU TEMİNİ SİSTEMLERİNİN PROJELENDİRİLMESİ, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

ÇEVRE MÜHENDİSLİĞİ SEÇMELİ TASARIMI I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

YAPI MÜHENDİSLİĞİ, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018

ÇEVRE MÜHENDİSLİĞİ SEÇMELİ TASARIMI II, Undergraduate, 2018 - 2019

Endüstriyel Atıksuların İleri Arıtımı, Doctorate, 2019 - 2020, 2018 - 2019

## Advising Theses

Yılmaz A. E., Mezbaha atıksularının elektrooksidasyon prosesi ile kesikli ve sürekli sistemde arıtımının incelenmesi, Doctorate, D.Öztürk(Student), 2019

Yılmaz A. E., Elektroflotasyon yöntemi ile sintine atıksularının arıtımının incelenmesi, Postgraduate, S.GÜLER(Student), 2019

YILMAZ A. E., HAM VE MEMBRAN BİYOREAKTÖR ÇIKIŞI SIZINTI SUYUNUN ELEKTROOKSİDASYON YÖNTEMİ İLE ARITIMININ İNCELENMESİ, Postgraduate, M.SAKARYA(Student), 2018

YILMAZ A. E., EVSEL ATIK SULARIN KESİKLİ VE SÜREKLİ SİSTEMDE ELEKTROKOAGÜLASYON ARITIM YÖNTEMİ İLE ARITIMININ İNCELENMESİ, Postgraduate, Y.DEDE(Student), 2015

YILMAZ A. E., EVSEL ATIKSULARIN KESİKLİ SİSTEMDE ELEKTROKOAGÜLASYON YÖNTEMİ İLE ARITIMININ İNCELENMESİ, Postgraduate, M.VAROL(Student), 2015

YILMAZ A. E., ANTEP FISTIĞI ATIKSULARININ SÜREKLİ SİSTEMDE ELEKTROKİMYASAL ARITIM YÖNTEMLERİ İLE ARITIMININ İNCELENMESİ, Postgraduate, Z.KÖKSAL(Student), 2015

YILMAZ A. E., ELEKTROKOAGÜLASYON YÖNTEMİ İLE RÖNTGEN BANYO ATIK SULARINDAN GÜMÜŞÜN GİDERİLMESİ VE GERİ KAZANILMASI, Postgraduate, S.ÇARIKCIOĞLU(Student), 2010

## Jury Memberships

Post Graduate, Post Graduate, Atatürk Üniversitesi, October, 2021

Post Graduate, TEZ SAVUNMA, ATATÜRK ÜNİVERSİTESİ, August, 2018

Post Graduate, TEZ SAVUNMA, ATATÜRK ÜNİVERSİTESİ, July, 2018

Post Graduate, TEZ SAVUNMA, ATATÜRK ÜNİVERSİTESİ, May, 2018

Post Graduate, TEZ SAVUNMA, ATATÜRK ÜNİVERSİTESİ, April, 2018

Post Graduate, TEZ SAVUNMA, ATATÜRK ÜNİVERSİTESİ, October, 2017

Post Graduate, TEZ SAVUNMA, ATATÜRK ÜNİVERSİTESİ, July, 2014

Post Graduate, TEZ SAVUNMA, ATATÜRK ÜNİVERSİTESİ, March, 2014

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

- I. **The investigation of parameters affecting the treatment of synthetic bilge water by continuous electrooxidation/flotation process**  
Yazdi D. A., YILMAZ A. E., Guler S., KOMESLİ O. T.  
WATER AND ENVIRONMENT JOURNAL, vol.38, no.2, pp.292-300, 2024 (SCI-Expanded)
- II. **The Investigation of Treatment of Pistachio Processing Industrial Wastewater by Electrochemical Methods in Terms of Chemical Oxygen Demand and Total Phenol Removal**  
YILMAZ A. E., Fil B. A., YILMAZ M. T., BAYAR S., Köksal Z.  
Journal of Electrochemical Science and Technology, vol.15, no.1, pp.178-189, 2024 (SCI-Expanded)
- III. **Turbidity Removal by Electrooxidation from Pistachio Processing Wastewater Using Ti/Pt Anodes**  
Günaslan S., Fil B. A., YILMAZ A. E.  
Journal of the Chemical Society of Pakistan, vol.46, no.1, pp.1-8, 2024 (SCI-Expanded)
- IV. **REMOVAL OF COPPER FROM AQUEOUS SOLUTIONS BY ADSORPTION ON MAHOGANY TREE SAWDUST (Swietenia mahagoni) IN BATCH AND FIXED BED**  
Çakir E., TOSUNOĞLU V., BONCUKCUOĞLU R., Fil B. A.  
Environmental Engineering and Management Journal, vol.23, no.1, pp.1-9, 2024 (SCI-Expanded)
- V. **Electro-oxidation of pistachio processing wastewater using Ti/Pt mesh-type anodes in batch system**  
FİL B. A., Boncukcuoglu R., YILMAZ A. E.  
WATER AND ENVIRONMENT JOURNAL, vol.37, no.1, pp.178-186, 2023 (SCI-Expanded)
- VI. **Comparison of Treatment Efficiency and Energy Consumption of Batch and Continuous Electrocoagulation in Urban Wastewater**  
YILMAZ A. E., Sagsoz Y. D., FİL B. A., YILMAZ M. T.  
CLEAN-SOIL AIR WATER, vol.51, no.1, 2023 (SCI-Expanded)
- VII. **Investigation of Nickel Removal from Heavy Metal Containing Industrial Wastewater by Electrocoagulation Method**  
Fil B. A., Elgün C., Cihan S. A., Günaslan S., YILMAZ A. E.  
Journal of Electrochemical Science and Technology, vol.13, no.4, pp.424-430, 2022 (SCI-Expanded)
- VIII. **Treatment Method with Electrocoagulation in Wastewater Which is Dominant with Zinc**  
Yılmaz A. E.  
IRANIAN JOURNAL OF CHEMISTRY AND CHEMICAL ENGINEERING, vol.2, pp.3-11, 2022 (SCI-Expanded)
- IX. **The Investigation of the Parameters Affecting the Solubility of Waste Activated Sludge in the Electro-oxidation Process**  
Erdem Yılmaz A., Kocadağistan B., Arargüç E. C.  
WATER, AIR AND SOIL POLLUTION : AN INTERNATIONAL JOURNAL OF ENVIRONMENTAL POLLUTION, vol.233, pp.189-198, 2022 (SCI-Expanded)
- X. **The Investigation of COD Treatment and Energy Consumption of Urban Wastewater by a Continuous Electrocoagulation System**  
Sagsoz Y. D., Yılmaz A. E., Ekmekyapar Torun F., Kocadağistan B., Kul S.  
JOURNAL OF ELECTROCHEMICAL SCIENCE AND TECHNOLOGY, vol.13, no.2, pp.261-268, 2022 (SCI-Expanded)
- XI. **Performance Evaluation of A/O Membrane Bioreactor System in the Effective Removal of Endocrine-Disrupting Chemicals: the Effect of SRT and Flux Rate**  
Sözüdoğru O., Koçoğlu E. S., Yılmaz A. E., Bakırdere S., Komesli O. T.  
WATER AIR AND SOIL POLLUTION, vol.233, no.4, 2022 (SCI-Expanded)
- XII. **Electrochemical mineralization of abattoir wastewater with continuous system**  
Ozturk D., Yılmaz A. E., Sapci Ayas Z.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.18, no.12, pp.3761-3776, 2021

(SCI-Expanded)

- XIII. **Investigation of electrochemical degradation of Basic Red 13 dye in aqueous solutions based on COD removal: numerical optimization approach**  
Öztürk D., Yilmaz A. E.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.17, no.5, pp.3099-3110, 2020  
(SCI-Expanded)
- XIV. **Influence of Hydraulic Retention Time (HRT) upon the Treatment of Wastewater by a Laboratory-Scale Membrane Bioreactor (MBR)**  
SÖZÜDOĞRU O., Massara T. M., Calik S., YILMAZ A. E., BAKIRDERE S., Katsou E., KOMESLİ O. T.  
ANALYTICAL LETTERS, vol.54, no.10, pp.1578-1587, 2020 (SCI-Expanded)
- XV. **Removal of Heavy Metals by a Membrane Bioreactor Combined with Activated Carbon**  
Calik S., Sözüdoğru O., Massara T. M., Yilmaz A. E., Bakirdere S., Katsou E., Komesli O. T.  
ANALYTICAL LETTERS, vol.54, no.10, pp.1616-1626, 2020 (SCI-Expanded)
- XVI. **Simultaneous determination of drug active compound, hormones, pesticides, and endocrine disruptor compounds in wastewater samples by GC-MS with direct calibration and matrix matching strategies after preconcentration with dispersive liquid-liquid microextraction**  
KOÇOĞLU E. S., SÖZÜDOĞRU O., KOMESLİ O. T., YILMAZ A. E., BAKIRDERE S.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.191, no.11, 2019 (SCI-Expanded)
- XVII. **Treatment of slaughterhouse wastewater with the electrochemical oxidation process: Role of operating parameters on treatment efficiency and energy consumption**  
Öztürk D., YILMAZ A. E.  
JOURNAL OF WATER PROCESS ENGINEERING, vol.31, 2019 (SCI-Expanded)
- XVIII. **The investigation of COD treatment and energy consumption from urban wastewater by batch electrocoagulation system for small settlements**  
YILMAZ M. T., YILMAZ A. E., DEDE Y.  
DESALINATION AND WATER TREATMENT, vol.131, pp.155-161, 2018 (SCI-Expanded)
- XIX. **KINETICS AND ISOTHERM ANALYSIS OF Cd<sup>2+</sup> REMOVAL FROM AQUEOUS SOLUTIONS BY ION EXCHANGE PROCESS**  
Fil B. A., YILMAZ A. E., Boncukcuoglu R., BAYAR S.  
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol.17, no.8, pp.1967-1976, 2018 (SCI-Expanded)
- XX. **The effect of initial pH and retention time on boron removal by continuous electrocoagulation process**  
MASSARA T. M., YILMAZ A. E., Cengiz I., MALAMİS S., YILMAZ M. T., Komesli O. T., STANCHEV P., INGLEZAKİS V. J., KATSOU E.  
DESALINATION AND WATER TREATMENT, vol.112, pp.99-105, 2018 (SCI-Expanded)
- XXI. **Arsenic and Boron Removal by Electrocoagulation with Aluminum Electrodes**  
Can B. Z., Boncukcuoglu R., YILMAZ A. E., Fil B. A.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.41, no.6, pp.2229-2237, 2016 (SCI-Expanded)
- XXII. **A new adsorbent for fluoride removal The utilization of sludge waste from electrocoagulation as adsorbent**  
YILMAZ A. E., FİL B. A., BAYAR S., KARCIOĞLU KARAKAŞ Z.  
Global Nest Journal, vol.17, pp.186-197, 2015 (SCI-Expanded)
- XXIII. **Treatment of Olive Mill Wastewater with Electro-Oxidation Method**  
KUL S., Boncukcuoglu R., YILMAZ A. E., Fil B. A.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.162, no.8, 2015 (SCI-Expanded)
- XXIV. **Effect of some operational parameters on the arsenic removal by electrocoagulation using iron electrodes**  
Can B. Z., BONCUKCUOĞLU R., YILMAZ A. E., Fil B. A.  
JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, vol.12, 2014 (SCI-Expanded)
- XXV. **Adsorption Kinetics and Isotherms for the Removal of Zinc Ions from Aqueous Solutions by an Ion-Exchange Resin**

## Articles Published in Other Journals

- I. **Çevresel Büyük Risk Maden Atıksularının Kimyasal Çöktürme Yöntemi ile Arıtım Örneği**  
Yılmaz A. E., Komesli Ş., Çalik S.  
İğdir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.2, pp.654-662, 2022 (Peer-Reviewed Journal)
- II. **THE INVESTIGATION OF FLOW RATE EFFECT ON LEACHATE TREATMENT BY ELECTROOXIDATION PROCESS**  
YILMAZ A. E., Dede Sagsoz Y., Sakarya M., CENGİZ İ.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, vol.11, no.1, pp.73-82, 2020 (ESCI)
- III. **Mezbaha Atıksularının Karakterizasyonu ve Arıtılabilirliğinin Değerlendirilmesi**  
ÖZTÜRK D., ALADAĞ E., YILMAZ A. E., BONCUKCUOĞLU R., BAYRAM T.  
Journal of the Institute of Science and Technology, vol.9, pp.738-748, 2019 (Peer-Reviewed Journal)
- IV. **Characterization of Slaughterhouse Wastewaters and Evaluation of its Treatability**  
ÖZTÜRK D., ALADAĞ E., YILMAZ A. E., BONCUKCUOĞLU R., BAYRAM T.  
Journal of the Institute of Science and Technology, vol.9, no.2, pp.738-748, 2019 (Peer-Reviewed Journal)
- V. **The Investigation of Parameters Affecting on Treatment of Pistachio Processing Industry Waste Water by Continuous Electrocoagulation Process**  
YILMAZ A. E., KÖKSAL Z.  
Journal of the Institute of Science and Technology, vol.7, pp.95-103, 2017 (Peer-Reviewed Journal)
- VI. **Domestic Wastewater Treatment Sludge Disposal with The Combustion Process of The Thermal Drying incineration Efficiency Investigation of The Relationship Between Energy**  
İrdemez Ş., Yılmaz A. E., Anlatıcı E.  
Journal of the Institute of Science and Technology, vol.4, pp.65-74, 2016 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Simultaneous Determination of Selected Drug Active Compounds in Wastewater Matrix by Binary Solvent Dispersive Liquid-Liquid Microextraction-LC-QTOF-MS/MS System**  
KOÇOĞLU E. S., SÖZÜDOĞRU O., KOMESLİ O. T., YILMAZ A. E., ÖZTÜRK ER E., BAKIRDERE S.  
1st International Congress on Analytical and Bioanalytical Chemistry (1st ICABC 2019), Antalya, Turkey, 27 - 30 March 2019

## Supported Projects

Kocadağistan B., Yılmaz A. E., Dede Sağsöz Y., Project Supported by Higher Education Institutions, Elektrokimyasal Yöntemlerle Yerinde Dezenfektan Üretiminin İncelenmesi, 2021 - 2021

KOMESLİ O. T., YILMAZ A. E., SÖZÜDOĞRU O., Project Supported by Higher Education Institutions, ÖN İŞLEMLERDEN GEÇİRİLEN YÜN YIKAMA ATIKSULARININ MEMBRAN BİYOREAKTÖR SİSTEMLERİ İLE ARITIMININ ARAŞTIRILMASI, 2015 - 2018

YILMAZ A. E., YILMAZ M. T., Project Supported by Higher Education Institutions, ATIKSULARIN ELEKTROKİMYASAL YÖNTEM İLE ARITILMASININ İNCELENMESİ VE ARITMA ESNASINDA ÇIKAN HİDROJEN GAZININ ENERJİ OLARAK KULLANILMASI, 2015 - 2017

YILMAZ A. E., KOMESLİ O. T., YILMAZ M. T., Project Supported by Higher Education Institutions, YÜN YIKAMA ATIKSULARININ ELEKTROKİMYASAL OLARAK ARITIMININ ARAŞTIRILMASI, 2015 - 2017

YILMAZ A. E., Project Supported by Higher Education Institutions, ZEYTİN KARASUYUNUN ELEKTROOKSİDASYON YÖNTEMİYLE ARITIMININ İNCELENMESİ, 2013 - 2015

YILMAZ A. E., Project Supported by Higher Education Institutions, FISTIK İŞLEME SANAYİ ATIKSULARININ SÜREKLİ ELEKTROKİMYASAL PROSELERİ İLE ARITIMINA ETKİ EDEN PARAMETRELERİN İNCELENMESİ, 2013 - 2014

YILMAZ A. E., Project Supported by Higher Education Institutions, NİKELİN SULU ÇÖZELTİLERDE ELEKTROKİMYASAL DAVRANIŞININ İNCELENMESİ, 2010 - 2011

## **Scientific Refereeing**

JOURNAL OF HAZARDOUS MATERIALS, Journal Indexed in SSCI, March 2011

DESALINATION, SCI Journal, January 2011

## **Metrics**

Publication: 94

Citation (WoS): 805

Citation (Scopus): 840

H-Index (WoS): 20

H-Index (Scopus): 18

## **Congress and Symposium Activities**

1. Uluslararası Sağlık Bilimleri ve Multidisipliner Yaklaşımlar Kongresi, Invited Speaker, Erzurum, Turkey, 2021

4th International Scientific Research Congress, Attendee, Yalova, Turkey, 2019

1st International Potable Water and Waste Water Symposium, Attendee, Afyon, Turkey, 2018

4. INTERNATIONAL WATER CONGRESS, Attendee, İzmir, Turkey, 2017