

## Prof. Kaan YETİLMEZSOY

### Personal Information

Office Phone: [+90 212 383 5376](tel:+902123835376)

Fax Phone: [+90 212 383 5358](tel:+902123835358)

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

Address: Yıldız Teknik Üniversitesi, İnşaat Fakültesi, Çevre Mühendisliği Bölümü, 34220, Davutpaşa, Esenler, İstanbul/TÜRKİY

### International Researcher IDs

ScholarID: ZIUm8YEAAAAJ

ORCID: 0000-0003-1478-9957

Publons / Web Of Science ResearcherID: Z-1680-2019

ScopusID: 15840993600

Yoksis Researcher ID: 174429

### Biography

Prof. Dr. Kaan YETİLMEZSOY, 1979 yılında İstanbul'da doğmuştur. 1985-1987 yılları arasında İskenderpaşa İlkokulu'nda (Fatih, İstanbul) ve 1987-1990 yılları arasında Şenesenevler İlkokulu'nda (Kadıköy, İstanbul) ilköğretim eğitimi aldıktan sonra, 1990-1993 yılları arasında Şenesenevler Ortaokulu'na (Kadıköy, İstanbul) devam etmiş ve ortaöğrenimini okul ikincisi olarak tamamlamıştır. 1993-1997 yılları arasında eğitim gördüğü yabancı dil ağırlıklı Haydarpaşa Süper Lisesi'nden (Üsküdar, İstanbul) mezun olan Prof. Dr. Kaan YETİLMEZSOY, 1998 yılında kazandığı Yıldız Teknik Üniversitesi (YTÜ) İnşaat Fakültesi Çevre Mühendisliği Bölümü'nü, toplam 6 dönemde (3 yılda) bölüm ve fakülte birincisi olarak 2001-2002 Güz Yarıyılı'nda tamamlamıştır. Aynı zamanda, YTÜ çapında ikincilik derecesi elde etmiştir. 2002 Ekim ayında, YTÜ İnşaat Fakültesi Çevre Mühendisliği Bölümü Çevre Teknolojisi Anabilim Dalı'nda Araştırma Görevlisi olarak akademik çalışmalarına başlamıştır.

Yüksek Lisans eğitimini ve aynı yarıyıldaki ikinci lisansı olan İnşaat Mühendisliği Bölümü'nü Yüksek Onur Öğrencisi olarak 2004 Güz Yarıyılı'nda tamamlamıştır. Lisans ve Yüksek Lisans kapsamındaki başarılarından ötürü, TÜBİTAK tarafından 2005-2008 yılları arasında Yurtiçi Doktora Bursu ile desteklenmiştir. 2008 Haziran ayında, Doktora eğitimini tamamlamış ve YTÜ Fen Bilimleri Enstitüsü Çevre Mühendisliği Anabilim Dalı'nda Doktor Mühendis unvanı almıştır. 2008 Aralık ayında Yardımcı Doçent görevine atanmıştır. Muvazzaf askerlik hizmetini 30.09.2009 tarihinde Erzurum Jet Üs Hava Meydan Komutanlığı'nda (327. Dnm.) tamamlamıştır. 2013 Ocak ayında Doçent unvanı ve 2019 Temmuz ayında Profesör unvanı almış olup, halen aynı Anabilim Dalı'nda akademik çalışmalarına devam etmektedir. 2014/2015 Güz Yarıyılı ve 2017/2018 Bahar Yarıyılı arasında Yeditepe Üniversitesi Mühendislik Fakültesi'nde Misafir Öğretim Üyesi (2547 Sayılı Yasa'nın 40/a maddesine göre) olarak görev yapmıştır ve "Introduction to Scientific Computing" dersini vermiştir. Aynı zamanda, Milli Savunma Üniversitesi Deniz Harp Okulu Komutanlığı'nda Misafir Öğretim Üyesi (2547 Sayılı Yasa'nın 40/c ve 40/a maddelerine göre) olarak görev yapmıştır ve 2018/2019 Güz Yarıyılı'nda ve 2019/2020 Güz Yarıyılı'nda "Yapay Zekâ" dersini ve 2019/2020 Bahar Yarıyılı'nda "Siber Güvenlik İçin Veri Madenciliği Uygulamaları" dersini vermiştir.

Yıldız Teknik Üniversitesi Akademik Yükseltme ve Atama Ölçütleri ile İlgili Esaslar Yönergesi - 2008 gereğince toplanan AYDEK Üst Kurulundan ve Temel Alt Komisyonlardan gelen kararlar doğrultusunda, Mühendislik Temel Alanı için Yardımcı Doçentlik Kadrosu Başvurusu aşamasında (26.09.2008) toplam 281,6 Genel Değerlendirme Puanı (gerekli

minimum ölçüt = 30 Puan, YTÜ AYDEK-2008/EK-2/syf.34), Doçentlik Kadrosu Başvurusu aşamasında ise (01.03.2013) toplam 2021,6 Genel Değerlendirme Puanı (gerekli minimum ölçüt = 60 Puan, YTÜ AYDEK-2008/EK-2/syf.34) sağlamış olup, Yardımcı Doçentlik ile Doçentlik dönemi arasında %617,9'luk akademik performans artışı elde etmiştir.

Prof. Dr. Kaan YETİLMEZSOY, SCI/SCI-Expanded listesinde yer alan dergilerde toplam 164 adet uluslararası makale yayımlanmış (doçentlik sonrası SCI/SCI-Expanded listesinde yer alan dergilerde 128 adet makale yayımlamıştır), uluslararası kapsamdaki bir kitapta (Springer International Publishing) 1 adet bölüm yazarlığı ve 1 adet editörlük yapmış, ulusal kapsamdaki bir kitapta (Türkiye Bilimler Akademisi (TÜBA)) Marmara Denizi'ndeki müsilaaj problemi konusunda 1 adet bölüm yazarlığı yapmış, uluslararası kapsamda 19 adet bildiri ve 8 adet diğer alan indekslerinde taranan makale, ulusal kapsamda 11 adet makale ve 7 adet bildiri yayımlamış, alanı ile ilgili 6 adet kitap yazarlığı yapmış ve toplamda 218 adet bilimsel eser üretmiştir.

Google Scholar Citations atf endeksine göre yayınlarına uluslararası alanda toplam 7652 kez atf yapılmış olup, h-index ve i10-index değerleri sırasıyla 43 ve 123'tür. Web of Science/Publons atf endeksine göre yayınlarına uluslararası alanda toplam 4891 kez atf yapılmış olup, bu veri tabanına göre h-index değeri 37'dir. Scopus veri tabanına göre atf sayısı 5492 ve h-index değeri 39'dur. Publons veri tabanına göre atf sayısı 3327 ve h-index değeri 31'dir. Scinapse veri tabanına göre atf sayısı 3951 ve h-index değeri 32'dir. Semantic Scholar veri tabanına göre atf sayısı 5601 ve h-index değeri 39'dur.

1 adet uluslararası araştırma projesinde araştırmacı, 2 adet uluslararası araştırma projesinde dış danışman, 2 adet uluslararası araştırma projesinde proje hakemliği, 1 adet uluslararası kapsamdaki doktora tezinde dış danışman ve 10 adet ulusal araştırma projesinin 2'sinde yönetici ve 8'inde araştırmacı olarak çalışmıştır. Bununla birlikte, TÜBİTAK ÇAYDAG'da 3 adet panelistlik ve 1 adet dış danışmanlık, 4 adet AR-GE projesinde bilimsel danışmanlık, TÜBİTAK-3001 programı kapsamında 2 adet dış danışmanlık, TÜBİTAK-2223 programı kapsamında 1 adet dış danışmanlık ve TÜBİTAK-2219 programı kapsamında ise 1 adet dış danışmanlık görevi yapmıştır.

2011 yılından bu yana 9 adet yüksek lisans tez danışmanlığı, 1 adet eş danışmanlık (yüksek lisans) ve 1 adet doktora tez danışmanlığı yapmıştır. Lisansüstü seviyesinde kendi geliştirdiği "Çevre Mühendisliğinde Tahmin Modelleri ve Uygulamaları" dersini ve "Çevre Mühendisliğinde Optimizasyon" ve "Filtrasyon" derslerini vermektedir. İdari görevler kapsamında, 2009 yılında Yıldız Teknik Üniversitesi (YTÜ) İnşaat Fakültesi Binası Eksik ve Kusurlu İmalatlar Tespit Komisyonu Üyesi, 2009-2013 yılları arasında Kalite Yönetim Temsilcisi ve Kalite ve Stratejik Planlama Komisyonu Başkanlığı, 2011-2017 yılları arasında YTÜ İnşaat Fakültesi Disiplin Komisyonu Üyesi, 2014 yılında YTÜ Davutpaşa Kampüsü'ndeki Tarihi Su Galerilerinin İncelenmesi Komisyonu Üyesi, 2014-2018 yılları arasında YTÜ Çevre Mühendisliği Bölümü Akreditasyon Kalite Yönetici Vekilliği, 2016 yılında YTÜ Çevre Mühendisliği Bölümü Kurumlararası Yatay Geçiş, Çift Anadal Başvuru Değerlendirme Komisyonu Üyesi, 2016 yılında YTÜ İnşaat Fakültesi İhtisas Komisyonu (Yapı İşleri) Üyesi ve 2016-2024 yılları arasında YTÜ Çevre Mühendisliği Bölümü Kalite Komisyonu - MÜDEK Ekibi Üyesi görevleri yapmıştır.

2007-2024 yılları arasında uluslararası alandaki 88 farklı bilimsel dergide toplam 201 kez bilimsel hakemlik görevi yapmış ve bugüne kadar 86 adet ödül (akademik teşvik, sertifika, plaket, vb.) kazanmıştır. Uluslararası bilimsel literatürde kendisine ait 30 adet matematiksel formülü (tahmin modeli) bulunmakta olup, lisans ve lisansüstü düzeyinde projelendirme ve modelleme alanlarında 2 adet yeni ders geliştirmiştir. Ayrıca, bilimsel dergilerde ve konferanslarda 33 farklı üyelik (editör kurulu üyesi, yardımcı editörlük, misafir editörlük, teknik program komite üyesi, bilimsel komite üyesi, moderatörlük, vb.) görevinde bulunmuştur. 2011 yılından bu yana, lisansüstü (yüksek lisans ve doktora)

kapsamında YTÜ'de ve diğer kurumlarda 40'tan fazla jüri üyeliğinde bulunmuştur. 2020-2024 yılları arasında, T.C. Üniversitelerarası Kurul Başkanlığı (ÜAK) tarafından 8 kez Doçentlik Jüri görevine atanmıştır.

Prof. Dr. Kaan YETİLMEZSOY'a, 26.12.2018 tarihinde Cumhurbaşkanlığı himayelerinde Beştepe Millet Kongre ve Kültür Merkezi'nde düzenlenen törenle Cumhurbaşkanı Sayın Recep Tayyip ERDOĞAN tarafından Türkiye Bilimler Akademisi 2018 yılı TÜBA-GEBİP Üstün Başarılı Bilim İnsanı Ödülü tevdi edilmiştir.

Güncelleme tarihi: 05 Ekim 2024, Cumartesi, 01:11

## Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Çevre Mühendisliği, Turkey  
2004 - 2008

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Çevre Mühendisliği, Turkey  
2002 - 2004

Undergraduate, Yildiz Technical University, Faculty Of Civil Engineering, İnşaat Mühendisliği, Turkey 2000 - 2004

Undergraduate, Yildiz Technical University, Faculty Of Civil Engineering, Çevre Mühendisliği, Turkey 1998 - 2002

## Foreign Languages

English, C1 Advanced

## Certificates, Courses and Trainings

Education Management and Planning, Mühendislik Eğitim Programları Değerlendirme ve Akreditasyon Derneği (MÜDEK) Eğitim Çalıştayı, Mühendislik Eğitim Programları Değerlendirme ve Akreditasyon Derneği (MÜDEK), 2018

## Dissertations

Doctorate, Tavuk çiftliği atıklarının havasız çamur yataklı reaktörde arıtılabilirliği, Yıldız Teknik Üniversitesi, Çevre Mühendisliği, Çevre Mühendisliği, 2008

Postgraduate, Nümerik analiz yöntemi ile absorpsiyon kulesi tasarımı, Yıldız Teknik Üniversitesi, Çevre Mühendisliği, Çevre Mühendisliği, 2004

## Research Areas

Agricultural Sciences, Agriculture, Soil and Plant Feed, Soil Fertility, Acidity, Alkanility, Environmental Engineering, Environmental Technology, Computer Sciences, algorithms, Artificial Intelligence, Computer Learning and Pattern Recognition, Fluid Mechanics, Civil Engineering, Hydraulic, Hydraulic Structures, Pipeline Hydraulics, Open Channel Flow, Infrastructure Systems, Mathematics, Computer Science, Statistics, Natural Sciences, Engineering and Technology

## Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering, 2019 -

Continues

Professor, Yeditepe University, Mühendislik Fakültesi, 2022 - 2023

Professor, Yeditepe University, Mühendislik Fakültesi, 2022 - 2022

Professor, National Defense University, Naval Academy, Department Of Computer Engineering, 2020 - 2020

Professor, National Defense University, Naval Academy, Department Of Computer Engineering, 2019 - 2020

Associate Professor, National Defense University, Naval Academy, Department Of Computer Engineering, 2018 - 2019

Associate Professor, Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering, 2013 - 2019

Associate Professor, Yeditepe University, Faculty Of Engineering, 2014 - 2018

Assistant Professor, Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering, 2008 - 2013

Research Assistant PhD, Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering, 2008 - 2008

Research Assistant, Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering, 2002 - 2008

## Advising Theses

Yetilmezsoy K., Determination of Sustainable Waste Management Strategies in Smart Cities Using Fuzzy Multi-Criteria Decision Approach, Postgraduate, B.GİZEM(Student), 2023

Yetilmezsoy K., Su ve atıksu arıtma proseslerinin bilgisayar esaslı modellenmesi, Postgraduate, N.CEM(Student), 2021

Yetilmezsoy K., Yüksek katlı binalar için iç çevre kalite etkileri dahil bir yaşam döngüsü değerlendirme çerçevesi, Doctorate, M.BAHRAMIAN(Student), 2020

Yetilmezsoy K., Biyokimyasal Metan Potansiyeli Esaslı Modelleme ve İstatistiksel Analiz Çalışmaları, Postgraduate, S.ÖZMAN(Student), 2020

YETİLMEZSOY K., Sürdürülebilir Enerji ve Çevre Yönetiminde Elektrikli Çöp Kamyonu Filosunun Rota Optimizasyonu, Postgraduate, O.ERDİNÇ(Student), 2017

YETİLMEZSOY K., Yapay Zekâ Modelleriyle Tam Ölçekli Çamur Çürütme Reaktörlerinden Elde Edilen Biyogaz Üretimini Tahmini: Yapay Sinir Ağları ve Fuzzy Logic Uygulamaları, Postgraduate, K.KARAKAYA(Student), 2016

YETİLMEZSOY K., Seyreltilmiş pamuklu tekstil atıksularının arıtımında Yukarı Akışlı Havasız Çamur Yataklı Reaktör (YAHÇYR) sisteminden elde edilen KOİ giderim verimi ve biyogaz üretiminin fuzzy logic (bulanık mantık) tekniği ile modellenmesi, Postgraduate, E.SOYDAŞ(Student), 2016

YETİLMEZSOY K., Tam Ölçekli Bir Sızıntı Suyu Arıtma Tesisinden Çıkan Azot Konsantrasyonunun Tahminde Optimum Bulanık Mantık (Fuzzy-Logic) Modelinin Araştırılması, Postgraduate, E.GÜR(Student), 2016

YETİLMEZSOY K., Melas Atıksularının Arıtımında Yukarı Akışlı Havasız Çamur Yataklı Reaktör (YAHÇYR) Sisteminden Elde Edilen Biyogaz ve Metan Üretimlerinin Yapay Sinir Ağları İle Modellenmesi, Postgraduate, İ.TEMİZEL(Student), 2016

YETİLMEZSOY K., Karbon Esaslı Lifli Polimerler (CFRP) ile Güçlendirilmiş Betonarme Kolonlarda Sargılı Beton Basınç Dayanımının Bulanık Mantık Yaklaşımı ile Tahmini, Postgraduate, S.MURTAZAOĞLU(Student), 2016

## Jury Memberships

Post Graduate, Gizem Engiz (Yüksek Lisans), İstanbul Teknik Üniversitesi, December, 2018

Post Graduate, A. Burak Akkoyunlu (Yüksek Lisans), Yıldız Teknik Üniversitesi, November, 2017

Doctorate, Mustafa Bozyiğit (Doktora), Yıldız Teknik Üniversitesi, February, 2015

Post Graduate, Gökçe Duman (Yüksek Lisans), İstanbul Teknik Üniversitesi, January, 2015

Post Graduate, Tülin Yılmaz (Yüksek Lisans), Yıldız Teknik Üniversitesi, September, 2014

Post Graduate, Vesile Çelebi (Yüksek Lisans), Yıldız Teknik Üniversitesi, February, 2014

Post Graduate, İsmail Hakkı Zengin (Yüksek Lisans), Yıldız Teknik Üniversitesi, January, 2014

Doctoral Examination, Serap Karaca (Doktora Yeterlik Sınavı), Boğaziçi Üniversitesi, October, 2013

Post Graduate, Çisil Gülümser (Yüksek Lisans), İstanbul Teknik Üniversitesi, October, 2012

Doctoral Examination, Sadullah Levent Kuzu (Doktora Yeterlik Sınavı), Yıldız Teknik Üniversitesi, October, 2011

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

- I. **Synthesis of agro-industrial wastes/sodium alginate/bovine gelatin-based polysaccharide hydrogel beads: Characterization and application as controlled-release microencapsulated fertilizers**  
Yetilmezsoy K., Kıyan E., İlhan F.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.279, no.Part 3, pp.1-28, 2024 (SCI-Expanded)
- II. **Techno-Economic Analysis of Combined Production of Wind Energy and Green Hydrogen on the Northern Coast of Mauritania**  
Maaloum V., Bououbeid E. M., Ali M. M., Yetilmezsoy K., Rehman S., Ménézo C., Mahmoud A. K., Makoui S., Samb M. L., Yahya A. M.  
SUSTAINABILITY, vol.16, no.18, pp.1-25, 2024 (SCI-Expanded)
- III. **Development of a magnetic nanocomposite sorbent (NiCoMn/Fe<sub>3</sub>O<sub>4</sub>@C) for efficient extraction of methylene blue and Auramine O**  
Gholami Z., Yetilmezsoy K., Azqhandi M. H. A.  
CHEMOSPHERE, vol.355, pp.1-8, 2024 (SCI-Expanded)
- IV. **Benchmarking of Various Flexible Soft-Computing Strategies for the Accurate Estimation of Wind Turbine Output Power**  
Bilal B., Yetilmezsoy K., Ouassaid M.  
ENERGIES, vol.17, no.3, pp.1-36, 2024 (SCI-Expanded)
- V. **An Optimization Study of Advanced Fenton Oxidation Methods (UV/Fenton–MW/Fenton) for Treatment of Real Epoxy Paint Wastewater**  
Balcioglu İlhan E. B., İlhan F., Kurt U., Yetilmezsoy K.  
WATER (SWITZERLAND), vol.16, no.4, pp.1-18, 2024 (SCI-Expanded)
- VI. **Treatability of high-strength real sheep slaughterhouse wastewater using struvite precipitation coupled Fenton's oxidation: The MAPFOX process**  
Yetilmezsoy K., İlhan F., Kıyan E.  
Water Resources and Industry, vol.30, pp.1-26, 2023 (SCI-Expanded)
- VII. **Role of Vermicomposting Microorganisms in the Conversion of Biomass Ash to Bio-Based Fertilizers**  
Turp G. A., Özdemir S., Yetilmezsoy K., Öz N., Elkamel A.  
SUSTAINABILITY, vol.15, no.11, pp.1-17, 2023 (SCI-Expanded)
- VIII. **A Hybrid Fuzzy AHP-TOPSIS Approach for Implementation of Smart Sustainable Waste Management Strategies**  
Demircan B. G., Yetilmezsoy K.  
SUSTAINABILITY, vol.15, no.8, pp.1-23, 2023 (SCI-Expanded)
- IX. **Additive Manufacture of Recycled Poly(Ethylene Terephthalate) Using Pyromellitic Dianhydride Targeted for FDM 3D-Printing Applications**  
Alzahrani M., Alhumade H., Simon L., Yetilmezsoy K., Madhuranthakam C. M. R., Elkamel A.  
SUSTAINABILITY, vol.15, no.6, pp.1-11, 2023 (SCI-Expanded)
- X. **Modeling of the mass flow rate of natural gas flow stream using genetic/decision tree/kernel-based data-intelligent approaches**  
Dayev Z., Yetilmezsoy K., Sihag P., Bahramian M., Kıyan E.  
FLOW MEASUREMENT AND INSTRUMENTATION, vol.90, pp.1-15, 2023 (SCI-Expanded)
- XI. **Wind turbine output power prediction and optimisation based on a novel adaptive neuro-fuzzy inference system with the moving window**  
Bilal B., Adjallah K. H., Sava A., Yetilmezsoy K., Ouassaid M.  
ENERGY, vol.263, no.Part E, pp.1-20, 2023 (SCI-Expanded)
- XII. **Optimal Configuration of Gas Solid Separation Equipment Using Mixed Integer Nonlinear**

## **Programming**

Failaka M. F., Madhuranthakam C. M. R., Yetilmezsoy K., Almansoori A., Elkamel A.  
ATMOSPHERE, vol.13, no.11, pp.1-16, 2022 (SCI-Expanded)

- XIII. **Screening plant growth effects of sheep slaughterhouse waste-derived soil amendments in greenhouse trials**  
Yetilmezsoy K., Kıyan E., İlhan F., Özçimen D., Koçer A. T.  
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.318, pp.1-16, 2022 (SCI-Expanded)
- XIV. **Use of sheep slaughterhouse-derived struvite in the production of environmentally sustainable cement and fire-resistant wooden structures**  
Yetilmezsoy K., Dinç Şengönül B., İlhan F., Kıyan E., Yüzer N.  
JOURNAL OF CLEANER PRODUCTION, vol.366, pp.1-18, 2022 (SCI-Expanded)
- XV. **Modeling the flow rate of dry part in the wet gas mixture using decision tree/kernel/non-parametric regression-based soft-computing techniques**  
Dayev Z., Shopanova G., Toksanbaeva B., Yetilmezsoy K., Sultanov N., Sihag P., Bahramian M., Kıyan E.  
FLOW MEASUREMENT AND INSTRUMENTATION, vol.86, pp.1-14, 2022 (SCI-Expanded)
- XVI. **A Synergistic Assessment of Bio-kinetics and Life Cycle Environmental Impacts of Different Agricultural Biomass Sources in Turkey**  
YETİLMEZSOY K., ÇETİNKAYA A. Y., Bilgili L.  
Waste and Biomass Valorization, vol.13, no.5, pp.2651-2671, 2022 (SCI-Expanded)
- XVII. **Closure to “Development of a New Practical Formula for Pipe-Sizing Problems within the Framework of a Hybrid Computational Strategy” by Kaan Yetilmezsoy, Majid Bahramian, Emel Kıyan, and Mojtaba Bahramian**  
Yetilmezsoy K., Bahramian M., Kıyan E., Bahramian M.  
Journal Of Irrigation And Drainage Engineering-Asce, vol.148, no.4, pp.1, 2022 (SCI-Expanded)
- XVIII. **A comprehensive techno-economic analysis of income-generating sources on the conversion of real sheep slaughterhouse waste stream into valorized by-products**  
Yetilmezsoy K., İlhan F., Kıyan E., Bahramian M.  
Journal Of Environmental Management, vol.306, pp.1-15, 2022 (SCI-Expanded)
- XIX. **Improved Methylene Blue Biosorption onto Green Algae: Ulva Lactuca**  
Turp S. M., Turp G. A., Ekinci N., Özdemir S., Yetilmezsoy K.  
Fresenius Environmental Bulletin, vol.31, no.01A, pp.998-1009, 2022 (SCI-Expanded)
- XX. **Wind power conversion system model identification using adaptive neuro-fuzzy inference systems: A case study**  
Bilal B., Adjallah K. H., Sava A., Yetilmezsoy K., Kıyan E.  
Energy, vol.239, no.B, pp.1-19, 2022 (SCI-Expanded)
- XXI. **A benchmark comparison and optimization of Gaussian process regression, support vector machines, and M5P tree model in approximation of the lateral confinement coefficient for CFRP-wrapped rectangular/square RC columns**  
YETİLMEZSOY K., Sihag P., KIYAN E., DORAN B.  
ENGINEERING STRUCTURES, vol.246, 2021 (SCI-Expanded)
- XXII. **Accurate Perception of Rock Strata Movement for Environmental Protection in Coal Mining: Taking Thick and Hard Roof Cooperative Control as an Example**  
Zhao T., Liu C., Yetilmezsoy K., Bahramian M., Gong P.  
ADVANCES IN CIVIL ENGINEERING, vol.2021, pp.1-12, 2021 (SCI-Expanded)
- XXIII. **Black-, gray-, and white-box modeling of biogas production rate from a real-scale anaerobic sludge digestion system in a biological and advanced biological treatment plant**  
Yetilmezsoy K., Karakaya K., Bahramian M., Abdul-Wahab S. A., Goncaloğlu B. İ.  
Neural Computing and Applications, vol.33, no.17, pp.11043-11066, 2021 (SCI-Expanded)
- XXIV. **A cartographic approach coupled with optimized sizing and management of an on-grid hybrid PV-solar-battery-group based on the state of the sky: An African case study**  
Jedou E., Ndongo M., Ali M. M., Yetilmezsoy K., Bilal B., Ebeya C. C., Kébé C. M. F., Kıyan E., Bahramian M.

- Solar Energy, vol.227, pp.101-115, 2021 (SCI-Expanded)
- XXV. **Vermicomposting of biomass ash with bio-waste for solubilizing of nutrients and its effect on nitrogen fixation in common beans**  
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- I. **Akıllı Sürdürülebilir Atık Yönetimi Stratejilerinin Değerlendirilmesinde Bir Hibrit Bulanık AHP-TOPSIS Uygulaması**  
Demircan B. G., Yetilmezsoy K.  
V. Ulusal Mühendislikte Bilimsel ve Mesleki Çalışmaları Kongresi (UMUH BILMES 2022), İstanbul, Turkey, 16 - 18 December 2022, pp.17-30
- II. **Development of Melatonin-Containing Orally Disintegrated Tablets Using Artificial Intelligence Methodology**  
Mesut B., Alkan B., Pirinççi Y., Özsoy Y., Yetilmezsoy K.  
8th BBBB International Conference on Pharmaceutical Sciences, İzmir, Turkey, 14 - 16 October 2019, pp.72-73
- III. **Sentetik Atıksudan (Gübre Endüstrisi) Struvit Formunda Geri Kazanılan Nihai Ürünün Şifalı Bitkiler İçin Yavaş Serbestleşen Bir Gübre Kaynağı ve Yangın Geciktirici Bir Ürün Olarak Kullanılabilirliğinin Araştırılması**  
Ateş A. B., Yetilmezsoy K.  
International Congress on Engineering and Technology Management, İstanbul, Turkey, 24 - 25 December 2018, pp.100-108
- IV. **Katı Atık Toplaması Sürecinde Kullanılan Taşıtların Rota Optimizasyonu Açısından İlgili Yaklaşımların Değerlendirilmesi**  
Erdoğan O., Yetilmezsoy K.  
II. International Symposium on Multidisciplinary Academic Studies (IMASES 2018), İstanbul, Turkey, 16 - 17 November 2018, pp.1-14
- V. **Removal of Ammonium Nitrogen from the DAF-Pretreated Poultry Slaughterhouse Wastewater by Lemna Minor**  
Türkdoğan F. İ., Yetilmezsoy K., Goncaloğlu B. İ., Kesintimur N., Güngördü M., Akyol Ç.  
, ICENS, 4th International Conference on Engineering and Natural Science, Kyiv, Ukraine, 2 - 06 May 2018, pp.1-8
- VI. **Toxicity Determination of Poultry Slaughterhouse Wastewater in Receiving Environment**  
Türkdoğan F. İ., Dalgıç Bozyiğit G., Kıyan E., Yetilmezsoy K.

- EurAsia 2016 Waste Management Symposium, İstanbul, Turkey, 2 - 04 May 2016, pp.689-692
- VII. **Investigation of Increase in Antibiotic Concentrations Introduced in Water Bodies and Effects on Environment**  
Türkdoğan F. İ., İkizoglu B., Dalgic G., Yetilmezsoy K., Diler N.  
EurAsia 2014 Waste Management Symposium, İstanbul, Turkey, 28 - 30 April 2014, pp.578-585
- VIII. **Investigation of Potential Genotoxic Activity for the Pharmaceutical Wastewater Containing Paracetamol**  
Kocak E., Dalgıç G., Türkdoğan F. İ., Yetilmezsoy K., Ergüven G. Ö.  
EurAsia 2014 Waste Management Symposium, İstanbul, Turkey, 28 - 30 April 2014, pp.853-859
- IX. **Karbon Esaslı Lifli Polimerler (CFRP) ile Güçlendirilmiş Betonarme Kolonlarda Kuşatma Katsayılarının Yapay Sinir Ağları ile Tahmini**  
Doran B., Yetilmezsoy K., Murtazaoğlu S.  
I. Türk Bilgisayar ve Matematik Eğitimi Sempozyumu, Trabzon, Turkey, 20 - 22 June 2013, vol.1, pp.1-8
- X. **The effect of hydraulic jump on the aeration efficiency**  
Bostan T., Coşar A., Yetilmezsoy K., Topçu S., Ağaçcıoğlu H.  
2. International Balkans Conference on Challenges of Civil Engineering, Tirane, Albania, 23 - 25 May 2013, pp.938-947
- XI. **Parasetamol İçeren İlaç Atıksularından İleri Oksidasyon Sistemleri ile KOİ Giderimi**  
Türkdoğan F. İ., Dalgıç Bozyiğit G., Yetilmezsoy K., Kıyan E., Zaghbani N.  
I. Ar-Ge Proje Pazarı Enerji ve Çevre Teknolojileri, İstanbul, Turkey, 29 - 30 May 2012, pp.67
- XII. **Evaluation of Poultry Manure/Waste as a Source of Renewable Energy**  
Yetilmezsoy K.  
IWES 2nd Waste Technologies Symposium and Exhibition, 04-05 Kasım / November 2010, WOW Convention Center, İstanbul, Turkey, İstanbul, Turkey, 4 - 05 November 2010, pp.132-136
- XIII. **Tavuk Çiftliği Atıklarının Havasız Çamur Yataklı Reaktörde Arıtılmasında Karşılaşılması Muhtemel İşletme Problemleri ve Çözüm Önerileri**  
Yetilmezsoy K., Kocak E., Şakar S.  
TÜRKAY 2009, Türkiye'de Katı Atık Yönetimi ve Çevre Sorunları Sempozyumu, İstanbul, Turkey, 15 - 17 June 2009, pp.1-15
- XIV. **Kampüs Atıksuyu Karakteristiğinin ve Yönetim Stratejilerinin Değerlendirilmesi: Yıldız Teknik Üniversitesi Örneği**  
Kıyan E., Yetilmezsoy K., Demirel S.  
ÇESKO 2009, İstanbul, Turkey, 21 March 2009, pp.205-208
- XV. **Post Treatment Alternatives for UASB Pretreated Poultry Manure Wastewater**  
YETİLMEZSOY K., ŞAPÇI Z., KOÇAK E.  
Cairo 11th International Conference on Energy Environment, Hurghada, Egypt, Hurghada, Egypt, 15 - 18 March 2009, pp.1-10
- XVI. **Post-Treatment Alternatives for UASB Pretreated Poultry Manure Wastewater**  
Yetilmezsoy K., Sapci-Zengin Z., Kocak E.  
Cairo 11th International Conference on Energy & Environment, Al-Qahira, Egypt, 16 - 18 March 2009, pp.1-10
- XVII. **Tavuk Çiftliklerinden Kaynaklanan Atıkların Havasız Arıtma Sürecinin Kinetik Açidan Değerlendirilmesi**  
Yetilmezsoy K., Şakar S.  
Kent Yönetimi, İnsan ve Çevre Sorunları Sempozyumu'08, İstanbul, Turkey, 2 - 06 November 2008, pp.1-12
- XVIII. **Hayvan Atıklarının Bertarafında Kullanılan Yaygın Biyogaz Reaktör Modelleri ve İşletme Esasları**  
Kıyan E., Yetilmezsoy K., Demirel S.  
TÜRKAY 2007, İstanbul, Turkey, 28 May 2007, pp.3-8
- XIX. **A Survey of Risk Perception of Drinking Water and Bottled Water Use**  
Kanat G., Yetilmezsoy K.  
12th International Symposium on Environmental Pollution and Its Impact on Life in the Mediterranean Region, Antalya, Turkey, 4 - 08 October 2003, pp.129

## XX. Earthquake Effects in Environmental Systems

Kanat G., Türkdoğın F. İ., Yetilmezsoy K.

12th International Symposium on Environmental Pollution and Its Impact on Life in the Mediterranean Region, Antalya, Turkey, 4 - 08 October 2003, pp.130

## Supported Projects

Yetilmezsoy K., İlhan F., Kıyan E., TÜBA Project, Organik Menşeli Endüstriyel Atıksulardan Geri Kazanılan Struvitin (MgNH<sub>4</sub>PO<sub>4</sub>.6H<sub>2</sub>O) Çevre, Tarım ve Yapı Sektörlerinde Faydalı Kullanım Özelliklerinin Araştırılması, 2018 - 2021

Mesut B., Yetilmezsoy K., Project Supported by Higher Education Institutions, Yapay Zeka Teknolojisi Kullanarak Tasarım ile Kalite Yaklaşımı Çerçevesinde Melatonin İçeren Ağzıda Dağılan Tablet (ODT) Formülasyonunun Geliştirilmesi, In vitro ve Sitotoksosite Analizleri, 2018 - 2020

Yetilmezsoy K., İlhan F., Kıyan E., Akbin H. M., Project Supported by Higher Education Institutions, Anaerobik Biyoreaktör Çıkış Sularından Struvit MgNH<sub>4</sub>PO<sub>4</sub> 6H<sub>2</sub>O Formunda Geri Kazanılan Nihai Ürünün Çok Yönlü Kullanım Özelliklerinin Araştırılması, 2014 - 2017

Türkdoğın F. İ., Yetilmezsoy K., DALGIÇ BOZYİĞİT G., KIYAN E., Project Supported by Higher Education Institutions, Parasetamol İçeren İlaç Atıksularından İleri Oksidasyon Sistemleri İle KOİ Giderimi, 2011 - 2016

Kıyan E., Yetilmezsoy K., Türkdoğın F. İ., Dalgıç Bozyiğit G., Ergüven G. Ö., Project Supported by Higher Education Institutions, Parasetamol İçeren İlaç Atıksuyunun Canlı DNA'sı Üzerindeki Genotoksik Etkilerin Araştırılması, 2012 - 2015

Kıyan E., Dalgıç Bozyiğit G., Yetilmezsoy K., Türkdoğın F. İ., Ergüven G. Ö., Project Supported by Higher Education Institutions, Parasetamol İçeren İlaç Atıksuyunun Canlı DNA'sı Üzerindeki Genotoksik Etkilerinin Araştırılması, 2012 - 2015

Çakmakçı M., Yetilmezsoy K., Karadağ D., Yaman F. B., Dora B., Bali V., Türkay H., Genç T., Elçik H., Aydın M., TUBITAK Project, Tekstil Atıksularının Nanofiltrasyon Membranı İle Arıtımı Sonucu Oluşan Konsantrenin Anaerobik Arıtılabilirliği, 2011 - 2013

## Activities in Scientific Journals

Journal of Advances in Environmental Health Research, Committee Member, 2018 - Continues

Journal of Advanced Biotechnology and Bioengineering, Committee Member, 2018 - Continues

Fluid Mechanics Research International Journal , Assistant Editor/Section Editor, 2017 - Continues

Journal of Soft Computing in Civil Engineering, Committee Member, 2017 - Continues

Journal of Environmental Toxicology and Analytical Research (JETAR), Committee Member, 2017 - Continues

World Chemical Engineering Journal, Committee Member, 2015 - Continues

Computational and Mathematical Methods in Medicine, Committee Member, 2014 - Continues

International Journal of Fuzzy Systems and Advanced Applications, Assistant Editor/Section Editor, 2013 - Continues

Open Journal of Water Pollution and Treatment, Committee Member, 2013 - Continues

Journal of Environment and Human, Committee Member, 2013 - Continues

Neural Network World, Committee Member, 2013 - Continues

Studies in Engineering and Technology, Committee Member, 2013 - Continues

Waste Technology, Committee Member, 2013 - Continues

International Journal of BioSciences and Technology (IJBST), Committee Member, 2013 - Continues

Journal of Intelligent & Fuzzy Systems, Assistant Editor/Section Editor, 2013 - 2017

## Scientific Refereeing

JOURNAL OF ENVIRONMENTAL MANAGEMENT, SCI Journal, August 2019

ENERGY & FUELS, SCI Journal, August 2019

ENVIRONMENTAL POLLUTION, SCI Journal, August 2019  
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, Journal Indexed in SCI-E, August 2019  
APPLIED SURFACE SCIENCE, SCI Journal, August 2019  
BUILDING AND ENVIRONMENT, Journal Indexed in SCI-E, July 2019  
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, SCI Journal, July 2019  
SCIENCE OF THE TOTAL ENVIRONMENT, SCI Journal, July 2019  
AIR QUALITY, ATMOSPHERE AND HEALTH, SCI Journal, June 2019  
NEURAL NETWORK WORLD, Journal Indexed in SCI-E, June 2019  
FLUID MECHANICS RESEARCH INTERNATIONAL JOURNAL, Other Indexed Journal, June 2019  
FLUID MECHANICS RESEARCH INTERNATIONAL JOURNAL, Other Indexed Journal, June 2019  
SUSTAINABLE CITIES AND SOCIETY, SCI Journal, May 2019  
CHEMOSPHERE, SCI Journal, March 2019  
BIORESOURCE TECHNOLOGY, SCI Journal, February 2019  
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, SCI Journal, January 2019  
CLEAN - SOIL, AIR, WATER, SCI Journal, November 2018  
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, SCI Journal, November 2018  
DESALINATION AND WATER TREATMENT, SCI Journal, September 2018  
BIOFOULING, SCI Journal, September 2018  
SCIENCE OF THE TOTAL ENVIRONMENT, SCI Journal, September 2018  
STUDIES IN ENGINEERING AND TECHNOLOGY, Other Indexed Journal, September 2018  
JOURNAL OF SOFT COMPUTING IN CIVIL ENGINEERING, Other Indexed Journal, September 2018  
NEURAL NETWORK WORLD, SCI Journal, August 2018  
WASTE AND BIOMASS VALORIZATION, SCI Journal, August 2018  
BIORESOURCE TECHNOLOGY, SCI Journal, August 2018  
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ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY , SCI Journal, July 2018  
JOURNAL OF MOLECULAR LIQUIDS, SCI Journal, July 2018  
AEROSOL AND AIR QUALITY RESEARCH, SCI Journal, June 2018  
JOURNAL OF CLEANER PRODUCTION, SCI Journal, June 2018  
INTERNATIONAL JOURNAL OF COMPUTATIONAL MATERIALS SCIENCE AND ENGINEERING, Other Indexed Journal, June 2018  
ATMOSPHERIC POLLUTION RESEARCH, SCI Journal, May 2018  
JOURNAL OF FOOD SAFETY, SCI Journal, April 2018  
SUSTAINABLE CITIES AND SOCIETY , SCI Journal, April 2018  
DATA IN BRIEF , Other Indexed Journal, April 2018  
April 2018  
FLUID MECHANICS RESEARCH INTERNATIONAL JOURNAL, Other Indexed Journal, March 2018  
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, SCI Journal, March 2018  
BALIKESİR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, March 2018  
JOURNAL OF MANUFACTURING SYSTEMS, SCI Journal, February 2018  
WATER AND ENVIRONMENT JOURNAL, SCI Journal, February 2018  
DESALINATION AND WATER TREATMENT, SCI Journal, December 2017  
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IRANIAN JOURNAL OF CHEMISTRY & CHEMICAL ENGINEERING - INTERNATIONAL ENGLISH EDITION, SCI Journal, August 2017  
APPLIED SURFACE SCIENCE , SCI Journal, July 2017  
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IKG Punjab Technical University, Computer Science & Engineering, Other journals, May 2017  
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NEURAL COMPUTING & APPLICATIONS, SCI Journal, April 2009  
BIORESOURCE TECHNOLOGY , SCI Journal, April 2009  
JOURNAL OF ECOLOGY AND THE NATURAL ENVIRONMENT, Other Indexed Journal, April 2009  
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, SCI Journal, April 2009  
JOURNAL OF HAZARDOUS MATERIALS, SCI Journal, February 2009  
FRESENIUS ENVIRONMENTAL BULLETIN , SCI Journal, February 2009  
AFRICAN JOURNAL OF MICROBIOLOGY RESEARCH, Other Indexed Journal, October 2008  
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, SCI Journal, September 2008  
APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, SCI Journal, August 2008  
JOURNAL OF HAZARDOUS MATERIALS , SCI Journal, August 2008  
STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, SCI Journal, July 2008  
JOURNAL OF HAZARDOUS MATERIALS , SCI Journal, May 2008  
JOURNAL OF HAZARDOUS MATERIALS , SCI Journal, April 2008  
ISPRS JOURNAL OF PHOTOGRAMMETRY AND REMOTE SENSING, SCI Journal, September 2007  
ENVIRONMENTAL ENGINEERING SCIENCE, SCI Journal, June 2007  
FRESENIUS ENVIRONMENTAL BULLETIN , SCI Journal, March 2007

## **Scientific Consultations**

TÜBİTAK - 2219 YURT DIŞI DOKTORA SONRASI ARAŞTIRMA BURS PROGRAMI, Project Consultancy, Milli Savunma Üniversitesi, Naval Academy, Department Of Computer Engineering, Turkey, 2019 - 2019  
TÜBİTAK - 2223 YURT İÇİ BİLİMSEL ETKİNLİKLERİ DESTEKLEME PROGRAMI, Project Consultancy, Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering, Turkey, 2015 - 2015  
Ermetal Otomotiv ve Eşya San. Tic. A.Ş. / Uludağ Üniversitesi TTO, Project Consultancy, Yildiz Technical University, Faculty

Of Civil Engineering, Department Of Environmental Engineering, Turkey, 2015 - 2015

TÜBİTAK - 3001 BAŞLANGIÇ AR-GE PROJELERİ DESTEKLEME PROGRAMI, Project Consultancy, Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering, Turkey, 2015 - 2015

Ermetal Otomotiv ve Eşya San. Tic. A.Ş. / Yıldız Teknik Üniversitesi TTO, Project Consultancy, Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering, Turkey, 2014 - 2015

TÜBİTAK - 3001 BAŞLANGIÇ AR-GE PROJELERİ DESTEKLEME PROGRAMI, Project Consultancy, Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering, Turkey, 2013 - 2013

TÜBİTAK - ÇAYDAG - ÇEVRE, ATMOSFER, YER VE DENİZ BİLİMLERİ ARAŞTIRMA DESTEK GRUBU, Project Consultancy, Yildiz Technical University, Faculty Of Civil Engineering, Department Of Environmental Engineering, Turkey, 2011 - 2011

## **Metrics**

Publication: 210

Citation (WoS): 4595

Citation (Scopus): 5135

H-Index (WoS): 36

H-Index (Scopus): 39

## **Congress and Symposium Activities**

IWES 2nd Waste Technologies Symposium and Exhibition, Invited Speaker, İstanbul, Turkey, 2010

TÜBİTAK ÇAYDAG - ÇEVRE, ATMOSFER, YER VE DENİZ BİLİMLERİ ARAŞTIRMA GRUBU, Panelists, Ankara, Turkey, 2010

TÜBİTAK ÇAYDAG - ÇEVRE, ATMOSFER, YER VE DENİZ BİLİMLERİ ARAŞTIRMA GRUBU, Panelists, Ankara, Turkey, 2009

## **Non Academic Experience**

MİLLİ SAVUNMA ÜNİVERSİTESİ DENİZ HARP OKULU KOMUTANLIĞI

YEDİTEPE ÜNİVERSİTESİ