

# Prof. Alper NUHOĞLU

## Personal Information

**Office Phone:** [+90 442 231 4806](tel:+904422314806)

**Email:** [anuhoglu@atauni.edu.tr](mailto:anuhoglu@atauni.edu.tr)

**Web:** <https://avesis.atauni.edu.tr/anuhoglu>

## International Researcher IDs

ScholarID: df0dWJcAAAAJ

ORCID: 0000-0001-7887-0987

Yoksis Researcher ID: 1035

## Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği A.B.D, Turkey 1996 - 2000

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Çevre Mühendisliği A.B.D, Turkey 1993 - 1996

Undergraduate, Ataturk University, Mühendislik Fak, Çevre Müh., Turkey 1988 - 1993

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Erzincan Kenti Evsel Atıksularının Karakterizasyonu ve Atıksu Arıtma Tesisinin GPS-X Bilgisayar Programı Kullanılarak Modellenmesi, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Mühendisliği A.B.D, 2000

Postgraduate, Çapraz Akışlı Membran Biyoreaktörde Denitrifikasyon Prosesi, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Çevre Mühendisliği A.B.D, 1993

## Research Areas

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

## Academic Titles / Tasks

Professor, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2010 - Continues

Associate Professor, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2005 - 2010

Assistant Professor, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2000 - 2005

## Academic and Administrative Experience

Mevlana Exchange Program Coordinator, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2013 -

Continues

Farabi Coordinator, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2011 - Continues

Erasmus Coordinator, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2005 - Continues

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2019 - 2021

Head of Department, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, 2018 - 2021

## Courses

Çevre Müh.Biyolojik Prosesler, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

İleri Biyolojik İşlemler, Doctorate, 2023 - 2024, 2022 - 2023

Environmental Biotechnology, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Enerji ve Çevre, Undergraduate, 2023 - 2024, 2022 - 2023

Su Kirliliği ve Kalite Kontrolü, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Uzmanlık Alan Dersi, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021

Çevre Mühendisliği Ekolojisi, Undergraduate, 2022 - 2023

Introduction to Engineering Economy, Undergraduate, 2022 - 2023

Operation and control of water and wastewater treatment plant, Undergraduate, 2020 - 2021

Doğal Arıtım Sistemleri, Undergraduate, 2021 - 2022

## Advising Theses

NUHOĞLU A., Fıstık Endüstrisi Atıksularının Ön Arıtımı Ve Aerobik Ortamda Biyolojik Olarak Arıtılabilirliğinin İncelenmesi, Postgraduate, S.Doğru(Student), 2013

NUHOĞLU A., Atatürk Üniversitesi Pilot Süt Fabrikası Atıksularının Membranbiyoreaktörde Arıtılması, Doctorate, T.Turan(Student), 2012

NUHOĞLU A., Erzurum Kenti Evsel Atıksu Arıtma Tesisinin GPS-X programıyla modellenmesi, Postgraduate, E.Aladağ(Student), 2011

NUHOĞLU A., Vinilasetat ve Stirenin Membran Biyoreaktörde Giderimi, Doctorate, B.Yalçın(Student), 2010

NUHOĞLU A., Kesikli bir Reaktörde Zeytin Karasuyunun Aerobik Şartlarda arıtımının İncelenmesi, Postgraduate, S.Kul(Student), 2008

NUHOĞLU A., Çapraz Akışlı Membran Proseste Zeytin Karasuyunun Gideriminin İncelenmesi, Postgraduate, T.Acun(Student), 2008

NUHOĞLU A., Hollow Fiber Membran Bioreaktörde Aerobik Şartlarda Fenol Giderimi, Postgraduate, H.Budak(Student), 2005

NUHOĞLU A., Kesikli Bir reaktörde aerobik ve Anoksik Şartlarda Fenol Giderimi", Postgraduate, B.Yalçın(Student), 2003

## Jury Memberships

Committee Of Expert, Committee Of Expert, Kars İdare Mahkemesi, December, 2022

Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, December, 2022

Committee Of Expert, Committee Of Expert, Erzincan Bölge İdare Mahkemesi, October, 2022

Doctorate, Doctorate, Atatürk Üniversitesi, September, 2022

Doctorate, Doctorate, Atatürk Üniversitesi, August, 2022

Post Graduate, Post Graduate, Atatürk Üniversitesi, July, 2022

Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, April, 2022

Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, May, 2021

Associate Professor Exam, 2018 Ekim dönemi eser inceleme, Doçentlik Sınav Jürisi, March, 2019

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

- I. **Removal kinetics of vinyl acetate under aerobic and anoxic conditions in a batch bioreactor**  
Celik B. Y., NUHOĞLU A., KUL S., Irdemez S.  
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.370, 2024 (SCI-Expanded)
- II. **High-speed treatment of low strength domestic wastewater for irrigation water production in pilot-scale classical, moving bed and fixed bed hybrid MBRs**  
Tuluk B., YILDIZ E., NUHOĞLU A., Tataroglu N. S., Gulluce E., CENGİZ İ., DEĞERMENCİ N., ANGIN İ.  
JOURNAL OF CLEANER PRODUCTION, vol.375, 2022 (SCI-Expanded)
- III. **Investigation of the biological treatability of pistachio processing industry wastewaters in a batch-operated aerobic bioreactor**  
TIRINK S., NUHOĞLU A., KUL S.  
WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.38, no.6, 2022 (SCI-Expanded)
- IV. **Removal Kinetics of Olive-Mill Wastewater in a Batch-Operated Aerobic Bioreactor**  
Kul S., NUHOĞLU A.  
JOURNAL OF ENVIRONMENTAL ENGINEERING, vol.146, no.3, 2020 (SCI-Expanded)
- V. **Biochemical variability of a deep landslide-set lake (Lake tortum, erzurum/turkey)**  
Fakioglu Ö., Nuhoglu A., Egercioglu M. N., Acar C.  
Applied Ecology and Environmental Research, vol.18, no.5, pp.6137-6162, 2020 (SCI-Expanded)
- VI. **Investigation of biodegradation and growth kinetics of dairy wastewater in a batch reactor**  
BAYRAM T., NUHOĞLU A., ALADAĞ E.  
BULGARIAN CHEMICAL COMMUNICATIONS, vol.49, no.4, pp.896-900, 2017 (SCI-Expanded)
- VII. **Performance investigation of a jet loop membrane bioreactor for the treatment of an actual olive mill wastewater**  
Değermenci N., cengiz İ., YILDIZ E., Nuhoglu A.  
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.184, pp.441-447, 2016 (SCI-Expanded)
- VIII. **Phenol biodegradation in a batch jet loop bioreactor (JLB): Kinetics study and pH variation**  
Ucun H., YILDIZ E., Nuhoglu A.  
BIORESOURCING TECHNOLOGY, vol.101, no.9, pp.2965-2971, 2010 (SCI-Expanded)
- IX. **Ferrous ion-oxidizing in Thiobacillus ferrooxidans batch cultures: Influence of pH, temperature and initial concentration of Fe<sup>2+</sup>**  
DANIŞ Ü., NUHOĞLU A., DEMİRBAŞ A.  
FRESenius ENVIRONMENTAL BULLETIN, vol.17, no.3, pp.371-377, 2008 (SCI-Expanded)
- X. **Simultaneous removal of C, N, P from cheese whey by jet loop membrane bioreactor (JLMBR)**  
FARIZOĞLU B., KESKİNLER B., YILDIZ E., NUHOĞLU A.  
JOURNAL OF HAZARDOUS MATERIALS, vol.146, pp.399-407, 2007 (SCI-Expanded)
- XI. **Impacts of some meteorological parameters on SO<sub>2</sub> and TSP concentrations in Erzurum Turkey**  
TURALIOĞLU F. S., NUHOĞLU A., BAYRAKTAR H.  
Chemosphere, 2005 (SCI-Expanded)
- XII. **Mathematical modelling of the activated sludge process - the Erzincan case**  
NUHOĞLU A., KESKİNLER B., YILDIZ E.  
PROCESS BIOCHEMISTRY, vol.40, no.7, pp.2467-2473, 2005 (SCI-Expanded)
- XIII. **Impacts of some meteorological parameters on SO<sub>2</sub> and TSP concentrations in Erzurum, Turkey**  
TURALIOĞLU F. S., NUHOĞLU A., BAYRAKTAR H.  
CHEMOSPHERE, vol.59, no.11, pp.1633-1642, 2005 (SCI-Expanded)
- XIV. **Modelling of phenol removal in a batch reactor**  
Nuhoglu A., Yalcin B.  
PROCESS BIOCHEMISTRY, vol.40, pp.1233-1239, 2005 (SCI-Expanded)
- XV. **High strength wastewater treatment in a jet loop membrane bioreactor: kinetics and performance evaluation**  
YILDIZ E., KESKİNLER B., PEKDEMİR T., AKAY G., NUHOĞLU A.

- CHEMICAL ENGINEERING SCIENCE, vol.60, no.4, pp.1103-1116, 2005 (SCI-Expanded)
- XVI. **Cheese whey treatment performance of an aerobic jet loop membrane bioreactor**  
FARİZOĞLU B., KESKİNLER B., YILDIZ E., NUHOĞLU A.  
PROCESS BIOCHEMISTRY, vol.39, no.12, pp.2283-2291, 2004 (SCI-Expanded)
- XVII. **Wastewater characterization and performance upgrading of a domestic wastewater treatment plant: the Erzincan case**  
Nuhoglu A., Yildiz E., Keskinler B., KARPUZCU M.  
INTERNATIONAL JOURNAL OF ENVIRONMENT AND POLLUTION, vol.21, no.5, pp.440-456, 2004 (SCI-Expanded)
- XVIII. **Water softening in a crossflow membrane reactor**  
YILDIZ E., NUHOĞLU A., KESKİNLER B., AKAY G., FARİZOĞLU B.  
DESALINATION, vol.159, no.2, pp.139-152, 2003 (SCI-Expanded)
- XIX. **The performance of pumice as a filter bed material under rapid filtration conditions**  
Farizoğlu B., Nuhoglu A., YILDIZ E., Keskinler B.  
FILTRATION & SEPARATION, vol.40, no.3, pp.41-46, 2003 (SCI-Expanded)
- XX. **The effects of cement dust on some soil characteristics**  
Bayhan Y. K., Yapici S., Kocaman B., Nuhoglu A., Cakici A.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.11, no.11, pp.1030-1033, 2002 (SCI-Expanded)
- XXI. **Strong wastewater treatment and modelling in a sequencing batch reactor**  
Nuhoglu A., YILDIZ E., Keskinler B., Farizoğlu B.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.11, no.11, pp.994-999, 2002 (SCI-Expanded)
- XXII. **Drinking water denitrification by a membrane bio-reactor**  
NUHOĞLU A., PEKDEMİR T., YILDIZ E., KESKİNLER B., AKAY G.  
WATER RESEARCH, vol.36, no.5, pp.1155-1166, 2002 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Wastewater treatment plant design and modeling for the city of Erzurum**  
Aladağ E., Nuhoglu A.  
Manas Journal of Engineering, vol.11, no.2, pp.190-203, 2023 (Peer-Reviewed Journal)
- II. **Characterization of pistachio processing industry wastewater and investigation of chemical pretreatment**  
TIRINK S., NUHOĞLU A., KUL S.  
Environmental Research Technology (Online), vol.3, no.4, pp.209-216, 2020 (Peer-Reviewed Journal)
- III. **Determination of Breakthrough Curves for the Uptake of Fe<sup>3+</sup> Using Magmatic Rock Material in Fixed Bed Column**  
NUHOĞLU A., OĞUZ E.  
International Journal of Material Science & Engineering, 2016 (Peer-Reviewed Journal)
- IV. **Process intensification in wastewater treatment: Oxygen transfer characterisation of a jet loop reactor for aerobic biological wastewater treatment**  
Keskinler B., Akay G., Pekdemir T., YILDIZ E., Nuhoglu A.  
International Journal of Environmental Technology and Management, vol.4, no.3, pp.220-235, 2004 (Scopus)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Fate Analysis of Some Micropollutants in Erzurum Biological Wastewater Treatment Plant by Using Toxchem Modelling**  
Eren Z., Nuhoglu A.  
4th International Environmental Chemistry Congress (EnviroChem) from 30 October- 02 November 2022 ,  
Antalya, Turkey, 30 October - 02 November 2022, pp.37-41

- II. **PRE-TREATMENT OF WASTEWATER FROM PILOT DAIRY FACILITY OF ATATURKUNIVERSITY USING MONTMORILLONITE CLAY**  
NUHOĞLU A., BAYRAM T.  
ISPEC, 5th international conference on engineering and natural sciences, 20 - 22 December 2019
- III. **The Effect of External Phosphorus Loads on Deep Lake of Tortum**  
FAKIOĞLU Ö., NUHOĞLU A., EĞERCİOĞLU N., Acar Ç.  
FABA 2018, 21 - 23 November 2018
- IV. **THE EFFECT OF EXTERNAL PHOSPHORUS LOADS ON DEEP LAKE OF TORTUM**  
FAKIOĞLU Ö., NUHOĞLU A., EĞERCİOĞLU M. N., ACAR Ç.  
FABA, Ankara, Turkey, 21 - 23 November 2018, pp.133
- V. **Hibrit MBR'ler ile Evsel ve Endüstriyel Atıksuların Arıtılması: Biyofilm ve Kavitasyon Destekli MBR Sistemleri**  
CENGİZ İ., YILDIZ E., NUHOĞLU A., DEĞERMENCİ N.  
Membran Biyoreaktör Teknolojileri Çalıştayı, Turkey, 18 - 20 April 2017
- VI. **Removal of Phenol under Aerobic Conditions by a Hollow Fibre Membrane Bioreactor**  
NUHOĞLU A., YILDIZ E., BONCUKCUOĞLU R., CENGİZ İ., BUDAK h.  
6th International Conference on Environmental Pollution and Remediation (ICEPR'16), 18 - 19 August 2016
- VII. **Drinking Water Treatment in Submerged Hollow Fiber Microfiltration Effect of Backwashing**  
YILDIZ E., CENGİZ İ., KOP a., DEĞERMENCİ N., NUHOĞLU A.  
6th International Conference on Environmental Pollution and Remediation (ICEPR'16), 18 - 19 August 2016
- VIII. **Electro Oxidation Treatment for Turbidity in Pistachio Processing Industry Wastewater PPIW**  
BONCUKCUOĞLU R., FİL B. A., YILMAZ A. E., NUHOĞLU A.  
6th International Conference on Environmental Pollution and Remediation (ICEPR'16), 18 - 19 August 2016
- IX. **Determination of Breakthrough Curves for the Uptake of Fe<sup>3</sup> Using Magmatic Rock Material in Fixed Bed Column**  
NUHOĞLU A., OĞUZ E.  
Proc. of The Fourth Intl. Conf. On Advances in Applied Science and Environmental Technology - ASET 2016, 7 - 08 May 2016

## Supported Projects

- Bayhan Y. K., Nuhoglu A., Angin İ., Yıldız E., TUBITAK Project, Düşük Şiddetli Evsel Atıksuların Klasik, Hareketli ve Sabit Yataklı Hibrit MBR'lerde Yüksek Hızda Sulama Suyu Amaçlı Arıtımı, 2015 - 2017
- Ceylan Z., Yıldız E., Nuhoglu A., TUBITAK Project, Hidrodinamik Kavitasyon HDK Destekli İleri Oksidasyon Prosesleri İOP ile Sızıntı Suyunun Ön Arıtımı ve Batık Membran Biyoreaktör BMBR Hidrodinamik Kavitasyon Reaktör HDKR Hibrit Sisteminde Arıtımını İçeren Yeni Bir Prosesin Geliştirilmesi, 2014 - 2017
- NUHOĞLU A., Project Supported by Higher Education Institutions, EVSEL ATIKSULARIN AKTİF ÇAMUR PROSESİNDE ARITIMININ İNCELENMESİ VE KİNETİK PARAMETRELERİN BELİRLENMESİ", 2014 - 2016
- Sözüdoğru O., Nuhoglu A., Project Supported by Higher Education Institutions, Sulu Ortamlardaki Organik Kirleticilerin Kil Türü Adsorbentler (Montmorillonite) Kullanılarak Giderilmesi, 2013 - 2016
- NUHOĞLU A., Project Supported by Higher Education Institutions, SULU ORTAMLARDAKİ ORGANİK KİRLİTİCİLERİN KİL TÜRÜ ADSORBENTLER (MONTMORİLLONİTE) KULLANILARAK GİDERİLMESİ, 2013 - 2014
- NUHOĞLU A., Project Supported by Higher Education Institutions, BİYOLOJİK ATIKSU ARITIM ARAŞTIRMA LABORATUARININ ALTYAPISININ YENİDEN DÜZENLENMESİ VE GELİŞTİRİLMESİ, 2012 - 2014
- NUHOĞLU A., Project Supported by Higher Education Institutions, MİKROBİYAL YAKIT HÜCRESİ KULLANARAK ATIKSULARDAN ELEKTRİK ÜRETİMİ, 2011 - 2012
- NUHOĞLU A., Project Supported by Higher Education Institutions, FISTIK ENDÜSTRİSİ ATIKSULARININ ÖN ARITIMI, 2011 - 2012
- NUHOĞLU A., Project Supported by Higher Education Institutions, ARDIŞIK KESİKLİ BİYOREAKTÖRDE ZEYTİN KARASUYUNUN ARITIMI, 2010 - 2012

NUHOĞLU A., TUBITAK Project, Vinil Asetat ile Divinil Benzenin Membran Biyoreaktörlerde Giderilmesi, 2009 - 2010

NUHOĞLU A., YILDIZ E., OĞUZ E., TUBITAK Project, Jet Loop Reaktörde Fenol ve Klorlanmış Fenollerin Ozonlanarak Giderilmesi, 2008 - 2010

Yıldız E., Nuhoglu A., TUBITAK Project, Zeytin Karasuyunun Membran Biyoreaktörlerde Aerobik Biyolojik Arıtlabilirliğinin İncelenmesi, 2007 - 2009

YILDIZ E., NUHOĞLU A., TUBITAK Project, Jet Loop Membran Biyoreaktörlerde Fenol İçeren Atıksuların Arıtılması, 2003 - 2006

## Scientific Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Erciyes University, Turkey, September 2022

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Istanbul University, Turkey, March 2022

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Konya University, Turkey, November 2020

TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, ULUDAĞ ÇEVRE TEKNOLOJİLERİ AR-GE MERKEZİ SANAYİ VE TİCARET LİMİTED ŞİRKETİ, Turkey, October 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Konya University, Turkey, April 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Marmara University, Turkey, March 2020

TUBITAK Project, 1002 - Quick Support Program, Marmara University, Turkey, January 2020

## Metrics

Publication: 35

Citation (WoS): 572

Citation (Scopus): 633

H-Index (WoS): 11

H-Index (Scopus): 10

## Congress and Symposium Activities

5. Haziran Dünya Çevre Günü, Panelists, Erzurum, Turkey, 2022