

Prof. Ensar OĞUZ

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği Anabilim Dalı, Turkey 1997 - 2003

Doctorate, Ataturk University, Atatürk Üniversitesi Fen Bilimleri Enstitüsü, Çevre Teknolojisi, Turkey 1997 - 2003

Postgraduate, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği Anabilim Dalı, Turkey 1993 - 1997

Undergraduate, Ataturk University, Mühendislik Fakültesi, Çevre Mühendisliği, Turkey 1989 - 1993

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Ozonlama-toz aktif karbon tekniği ile boyar maddelerin arıtım, Atatürk Üniversitesi, Atatürk Üniversitesi Fen Bilimleri Enstitüsü, Çevre Teknolojisi, 2003

Postgraduate, Erzurum Karasu Nehri kirlilik parametrelerinin matematik modellenmesi, Atatürk Üniversitesi, Atatürk Üniversitesi Fen Bilimleri Enstitüsü, Çevre Teknolojisi, 1997

Research Areas

Environmental Engineering, Environmental Technology, Environmental Modeling, Water Pollution and Control, Engineering and Technology

Academic Titles / Tasks

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

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

Expert, Ataturk University, Atatürk Üniversitesi Rektörlüğü, Çevre Sorunları Araştırma Merkezi Müdürlüğü, 1993 - 2005

Academic and Administrative Experience

Atatürk Üniversitesi, 2014 - 2017

Atatürk Üniversitesi, 2008 - 2012

Courses

Ekosistem Modellemesi, Postgraduate, 2022 - 2023
Termodinamik, Undergraduate, 2022 - 2023
Çevre Mühendisliği Termodinamiği, Undergraduate, 2022 - 2023
Çevre Mühendisliği Kimyası I, Undergraduate, 2023 - 2024
Water Chemistry, Postgraduate, 2023 - 2024
Mühendislik Mekaniği, Undergraduate, 2022 - 2023
Mühendislik Mekaniği, Undergraduate, 2022 - 2023
Çevre Mühendisliği Kimyası I, Undergraduate, 2023 - 2024
Su ve Atıksuların Ozonlaması, Postgraduate, 2023 - 2024
Çevre Mühendisliği Termodinamiği, Undergraduate, 2021 - 2022
Çevre Kimyası Lab. I, Undergraduate, 2022 - 2023
Mühendislik Mekaniği, Undergraduate, 2021 - 2022
Çevre Mühendisliği Kimyası Lab. (II), Undergraduate, 2022 - 2023
Reaksiyon Kinetiği, Undergraduate, 2021 - 2022
Mühendislik Mekaniği, Undergraduate, 2020 - 2021
Mühendislik Mekaniği, Undergraduate, 2020 - 2021
Bitirme Projesi I, Undergraduate, 2020 - 2021
Mühendislik Mekaniği, Undergraduate, 2020 - 2021
Reaksiyon Kinetiği, Undergraduate, 2021 - 2022
Çevre Mühendisliği Kimyası I, Undergraduate, 2021 - 2022
Reaksiyon Kinetiği, Undergraduate, 2021 - 2022
Reaksiyon Kinetiği, Undergraduate, 2021 - 2022
Reaksiyon Kinetiği, Undergraduate, 2021 - 2022
Çevre Mühendisliği Tasarımı I, Undergraduate, 2020 - 2021

Advising Theses

OĞUZ E., Düşük Maliyetli biyosorbent ile sabit yataklı kolonlardan Boyarmadde giderimi, Postgraduate, M.DALKILINÇ(Student), 2015
OĞUZ E., Atıksu Arıtma Tesislerinin Visual beşik tabanlı AutoCAT Modellemesi, Postgraduate, Y.Nuri(Student), 2011
OĞUZ E., Ayçekirdeği kabukları ile Sentetik atıksulardan Cu(II) ve Co (II) giderimi, Postgraduate, M.ERSOY(Student), 2011

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Ataturk University, December, 2021
Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, December, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Increasing the biosorption capacity in removing Cd²⁺ ions from synthetic aqueous solutions using N and M biosorbent, mechanism explanations, kinetics, thermodynamics, and desorption studies**
Oğuz E., Dal S.
Biomass Conversion and Biorefinery, vol.14, no.15, pp.17875-17889, 2024 (SCI-Expanded)

- II. **Leachate treatment via electrocoagulation–coal-based powdered activated carbon process: Efficiencies, mechanisms, kinetics, and costs**
Ogedey A., OĞUZ E.
Water Environment Research, vol.96, no.6, 2024 (SCI-Expanded)
- III. **Exploring Disposal Efficiency of COD, NH₃-N, and Turbidity in Diluted Real Leachate Using Ti/PdO-CoO Electrodes in an Electrooxidation Cell: An Investigation into Oxidation Mechanism and Reaction Kinetics Studies**
ÖĞEDEY A., OĞUZ E.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.171, no.4, 2024 (SCI-Expanded)
- IV. **Application of electrocoagulation process for the disposal of COD, NH₃-N and turbidity from the intermediate sanitary landfill leachate**
ÖĞEDEY A., OĞUZ E.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.31, pp.11243-11260, 2024 (SCI-Expanded)
- V. **High accuracy prediction of Cu(II) cations removal from synthetic aqueous solutions with ANNs using normal and modified biosorbent**
Oğuz E.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.104, no.16, pp.4506-4521, 2024 (SCI-Expanded)
- VI. **ANNs modeling of the normal and modified biosorbent capacities using two outputs in the removal of Pb (II)**
Oguz E.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.20, no.5, pp.5143-5154, 2023 (SCI-Expanded)
- VII. **Comparative study of natural and modified Abies bornmulleriana cones in the removal of copper (II) ions**
Oğuz E.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.19, no.6, pp.5343-5358, 2022 (SCI-Expanded)
- VIII. **Alkali modified Abies bornmulleriana cones as a costeffective biosorbent for enhanced removal of Pb (II) ions, and its comparison with normal biosorbent: Isotherm, kinetic, and thermodynamic parameters**
OĞUZ E.
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.40, 2021 (SCI-Expanded)
- IX. **Adaptive Neuro-Fuzzy Inference System Modeling of Reactive Red 250 Dyestuff Sorption to Cucurbita moschata Rind in a Fixed-Bed Column**
OĞUZ E., Utku M.
ENVIRONMENTAL ENGINEERING SCIENCE, vol.38, pp.645-653, 2021 (SCI-Expanded)
- X. **Simultaneous removal of lead, copper, cadmium, nickel, and cobalt heavy metal ions from the quinary system by Abies bornmulleriana cones**
OĞUZ E.
WATER SCIENCE AND TECHNOLOGY, vol.82, no.12, pp.3032-3046, 2020 (SCI-Expanded)
- XI. **Pore Characterization and FTIR Spectras of Yellow Squash Particles and Adaptive Neuro-Fuzzy Inference System Modelling of the Breakthrough Curves of Reactive Blue 21 Dyestuff in a Fixed-Bed Column**
OĞUZ E., Utku M.
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.38, 2019 (SCI-Expanded)
- XII. **COD removal from leachate by electrocoagulation process: treatment with monopolar electrodes in parallel connection**
Tanyol M., Ogedey A., OĞUZ E.
WATER SCIENCE AND TECHNOLOGY, vol.77, no.1, pp.177-186, 2018 (SCI-Expanded)
- XIII. **Fixed-bed column studies on the removal of Fe³⁺ and neural network modelling**

- OĞUZ E.
ARABIAN JOURNAL OF CHEMISTRY, vol.10, no.3, pp.313-320, 2017 (SCI-Expanded)
- XIV. **Comparison Between Sorption and Sono-Sorption Efficiencies, Equilibriums and Kinetics in the Uptake of Direct Red 23 from the Aqueous Solutions**
OĞUZ E., BİRE M., NUHOĞLU Y.
WATER AIR AND SOIL POLLUTION, vol.227, no.8, pp.1-14, 2016 (SCI-Expanded)
- XV. **Uptake of Humic Substance and COD From Aqueous Solutions Using Synergic Processes Such as O-3/pH, O-3/HCO₃⁻ and O-3/PAC and Multiple Regression Analysis**
OĞUZ E.
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.35, no.3, pp.653-660, 2016 (SCI-Expanded)
- XVI. **Investigation on the Removal of COD from Colored Aqueous Solutions with O-3, H₂O₂, HCO₃⁻, and PAC**
OĞUZ E., Keskinler B., ÇELİK C.
OZONE-SCIENCE & ENGINEERING, vol.37, no.1, pp.62-70, 2015 (SCI-Expanded)
- XVII. **Biosorption of cobalt(II) with sunflower biomass from aqueous solutions in a fixed bed column and neural networks modelling**
OĞUZ E., ERSOY M.
ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY, vol.99, pp.54-60, 2014 (SCI-Expanded)
- XVIII. **Effect of experimental conditions on the sorption efficiencies and capacities in removal of Fe³⁺ from aqueous solutions by magmatic rock material**
Lacin O., OĞUZ E.
Asian Journal of Chemistry, vol.26, 2014 (SCI-Expanded)
- XIX. **Removal of Cu²⁺ from aqueous solution by adsorption in a fixed bed column and Neural Network Modelling**
OĞUZ E., ERSOY M.
CHEMICAL ENGINEERING JOURNAL, vol.164, no.1, pp.56-62, 2010 (SCI-Expanded)
- XX. **Determination of the apparent rate constants of the degradation of humic substances by ozonation and modeling of the removal of humic substances from the aqueous solutions with neural network**
OĞUZ E., TORTUM A., Keskinler B.
JOURNAL OF HAZARDOUS MATERIALS, vol.157, pp.455-463, 2008 (SCI-Expanded)
- XXI. **Determination of the apparent ozonation rate constants of 1 : 2 metal complex dyestuffs and modeling with a neural network**
OĞUZ E., Keskinler B., TORTUM A.
CHEMICAL ENGINEERING JOURNAL, vol.141, pp.119-129, 2008 (SCI-Expanded)
- XXII. **Comparison among O-3, PAC adsorption, O-3/HCO₃⁻, O-3/H₂O₂ and O-3/PAC processes for the removal of Bomaplex Red CR-L dye from aqueous solution**
OĞUZ E., KESKİNLER B.
DYES AND PIGMENTS, vol.74, no.2, pp.329-334, 2008 (SCI-Expanded)
- XXIII. **Removal of colour and COD from synthetic textile wastewaters using O-3, PAC, H₂O₂ and HCO₃⁻**
OĞUZ E., KESKİNLER B.
JOURNAL OF HAZARDOUS MATERIALS, vol.151, pp.753-760, 2008 (SCI-Expanded)
- XXIV. **Equilibrium isotherms and kinetics studies for the sorption of fluoride on light weight concrete materials**
OĞUZ E.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.291, pp.258-263, 2007 (SCI-Expanded)
- XXV. **Determination of the optimum conditions in the removal of Bomaplex Red CR-L dye from the textile wastewater using O-3, H₂O₂, HCO₃⁻ and PAC**
OGUZ E., KESKİNLER B., ÇELİK C., Celik Z.
JOURNAL OF HAZARDOUS MATERIALS, vol.131, pp.66-72, 2006 (SCI-Expanded)
- XXVI. **Determination of the optimum conditions in the removal of Bomaplex Red CR-L dye from the textile**

- wastewater using O₃, H₂O₂, HCO₃⁻ and PAC
OĞUZ E., KESKİNLER B., CEYLAN Z.
JOURNAL OF HAZARDOUS MATERIALS, vol.131, pp.66-72, 2006 (SCI-Expanded)
- XXVII. **Determination of adsorption capacity and thermodynamic parameters of the PAC used for bomaplex red CR-L dye removal**
OĞUZ E., KESKİNLER B.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.268, pp.124-130, 2005 (SCI-Expanded)
- XXVIII. **Sorption of phosphate from solid/liquid interface by fly ash**
OĞUZ E.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.262, pp.113-117, 2005 (SCI-Expanded)
- XXIX. **Adsorption characteristics and the kinetics of the Cr(VI) on the Thuja orientalis**
OĞUZ E.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.252, pp.122-128, 2005 (SCI-Expanded)
- XXX. **Adsorption characteristics and the kinetics of the Cr(VI) on the Thuja orientalis**
OĞUZ E.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.252, pp.122-128, 2005 (SCI-Expanded)
- XXXI. **Adsorption of fluoride on gas concrete materials**
OĞUZ E.
JOURNAL OF HAZARDOUS MATERIALS, vol.117, pp.227-233, 2005 (SCI-Expanded)
- XXXII. **Thermodynamic and kinetic investigations of PO₄³⁻ adsorption on blast furnace slag**
OĞUZ E.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.281, no.1, pp.0-67, 2005 (SCI-Expanded)
- XXXIII. **Adsorption of fluoride on gas concrete materials**
OĞUZ E.
JOURNAL OF HAZARDOUS MATERIALS, vol.117, pp.227-233, 2005 (SCI-Expanded)
- XXXIV. **Thermodynamic and kinetic investigations of PO₄³⁻ adsorption on blast furnace slag**
OĞUZ E.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.281, no.1, pp.62-67, 2005 (SCI-Expanded)
- XXXV. **Removal of phosphate from aqueous solution with blast furnace slag**
OĞUZ E.
JOURNAL OF HAZARDOUS MATERIALS, vol.114, pp.131-137, 2004 (SCI-Expanded)
- XXXVI. **Removal of copper(II) from aqueous solutions by biosorption on the cone biomass of Thuja orientalis**
OĞUZ E., NUHOĞLU Y.
PROCESS BIOCHEMISTRY, vol.38, no.11, pp.1627-1631, 2003 (SCI-Expanded)
- XXXVII. **Interaction between air pollution and meteorological parameters in Erzurum, Turkey**
OĞUZ E., Kaya M., Nuhoglu Y.
INTERNATIONAL JOURNAL OF ENVIRONMENT AND POLLUTION, vol.19, no.3, pp.292-300, 2003 (SCI-Expanded)
- XXXVIII. **Prediction of adsorption rate of phosphate removal from wastewater with gas concrete**
Oğuz E., Aydın A. C.
INTERNATIONAL JOURNAL OF ENVIRONMENT AND POLLUTION, vol.19, no.6, pp.603-614, 2003 (SCI-Expanded)

Articles Published in Other Journals

- I. **Sabit Yataklı Kolonda Düşük Maliyetli Adsorbent ile Boyarmadde Giderimi**

DALKILIÇ M., OĞUZ E.

Bilim ve Gençlik Dergisi, 2017 (Peer-Reviewed Journal)

II. Determination of Breakthrough Curves for the Uptake of Fe³ Using Magmatic Rock Material in Fixed Bed Column

NUHOĞLU A., OĞUZ E.

International Journal of Material Science & Engineering, 2016 (Peer-Reviewed Journal)

III. Breakthrough curves modelling of liquid phase biosorption of Cu on Helianthus Annuus particles

OĞUZ E., ERSOS M.

International Journal of Natural and Engineering Sciences, vol.10, no.1, pp.19-22, 2016 (Peer-Reviewed Journal)

IV. Batch Biosorption of Copper II by Sunflower Shell

OĞUZ E., Muhammed E.

Applied Mechanics and Materials, 2015 (Peer-Reviewed Journal)

V. Biosorption of Cu II on the Pleurotus ostreatus Equilibrium Kinetic and Thermodynamic Studies

Danış Ü., Oğuz E., Kaya Y.

J. Int. Environmental Application & Science, vol.8, pp.700-713, 2013 (Peer-Reviewed Journal)

VI. DEVELOPMENTS IN OZONATION OF WATERS

OĞUZ E., CEYLAN Z.

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BILIMLERI DERGISI, vol.7, pp.367-372, 2001 (Peer-Reviewed Journal)

Books & Book Chapters

I. Organik Kimya ile İlgili Temel Kavramlar

Ceylan Z., Oğuz E.

in: Çevre Mühendisliği ve Bilimi için Kimya, Toröz İ., Editor, Nobel Yayın Dağıtım, Ankara, pp.212-314, 2013

II. Organik Kimya ile İlgili Temel Kavramlar

CEYLAN Z., oğuz e.

in: Çevre Mühendisliği ve Bilimi için Kimya, Toröz İ., Editor, Nobel Yayın Dağıtım, Ankara, pp.212-314, 2013

Refereed Congress / Symposium Publications in Proceedings

I. Pretreatment of landfill leachate using electrocoagulation process

ÖĞEDEY A., OĞUZ E., TANYOL M.

International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 8 - 10 May 2017

II. Breakthrough Curves Modelling of Liquid phase Biosorption of Cu ions on the Helianthus Annuus Particles

OĞUZ E., ERSOY M.

INTERNATIONAL CONGRESS ONNATURAL AND ENGINEERING SCIENCES, 1 - 05 September 2016

III. Prediction of Breakthrough times and curves in the removal of Fe³ Ions from Aqueous Solutions Using different Models

OĞUZ E.

2nd International Congress on Natural and Engineering Sciences / 01-05 September 2016, Skopje/ Macedonia, 1 - 05 September 2016, pp.66-70

IV. Determination of Breakthrough Curves for the Uptake of Fe³ 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

V. KINETICS AND ISOTHERM MODELS OF CU BIOSORPTION BY BIOMASS OF HELIANTHUS ANNUUS

OĞUZ E.

Proc. of The Fourth Intl. Conf. On Advances in Applied Science and Environmental Technology - ASET 2016, 7 - 08
May 2016

VI. Effect of Experimental Conditions on Breakthrough Curves in the Removal of Fe 3 from Aqueous Solutions

OĞUZ E.

2015 International Congress on Natural and Engineering Sciences, 9 - 13 September 2015

Supported Projects

ÇAĞLAR A. E., OĞUZ E., GÖNENÇ S., Project Supported by Higher Education Institutions, Sürdürülebilir Kalkınma Amaçları Çerçevesinde Türkiyede Fosil Enerji Tüketimi Şoklara Karşı Dirençli Midir?, 2022 - 2023

TEKİN T., ÖZÜLÜER ÖZER T., OĞUZ E., ÖZTÜRK G., KIZILTAŞ H., Project Supported by Higher Education Institutions, 3D Grafen Aerojel Destekli Fe₃O₄/SiO₂/TiO₂, Fe₃O₄/SiO₂/ZnO, Fe₃O₄/SiO₂/Ag, Fe₃O₄/SiO₂/TiO₂/Ag, Fe₃O₄/SiO₂/ZnO/Ag CoreShell Yapılı Nanokompozit Fotoelektrotların (Fotokatalizörler) Sentezlenmesi Elektrofotokatalitik ve Biyomedikal Aktivitelerinin İncelenmesi, 2019 - 2022

OĞUZ E., Project Supported by Higher Education Institutions, Sentetik Çözeltilerden Eşzamanlı olarak Çoklu Ağır Metal Giderimi, 2019 - 2020

OĞUZ E., Project Supported by Other Official Institutions, Düzensiz depolama alanlarına yönelik rehabilitasyon çalışması, 2015 - 2017

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

Metrics

Publication: 54

Citation (WoS): 406

Citation (Scopus): 461

H-Index (WoS): 9

H-Index (Scopus): 10

Congress and Symposium Activities

International conference on civil and environmental Engineering, Attendee, Antalya, Turkey, 2017

INTERNATIONAL CONGRESS ONNATURAL AND ENGINEERING SCIENCES, Attendee, Macedonia, 2016

2nd International Congress on Natural and Engineering Sciences / 01-05 September 2016, Skopje/ Macedonia, Attendee, Macedonia, 2016

Proc. of The Fourth Intl. Conf. On Advances in Applied Science and Environmental Technology - ASET 2016, Attendee, Thailand, 2016

Proc. of The Fourth Intl. Conf. On Advances in Applied Science and Environmental Technology - ASET 2016, Attendee, Thailand, 2016

2015 International Congress on Natural and Engineering Sciences, Attendee, Bosnia And Herzegovina, 2015

Awards

BALKAYA D., OĞUZ E., Çeviri Ödülü, Atatürk Üniversitesi Rektörlüğü, May 2015

Non Academic Experience

Atatürk Üniversitesi Çevre Sorunları Araştırma Merkezi Müdürlüğü