

## **Prof. Özlem KORKUT**

### **Personal Information**

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**Address:** Atatürk Üniversitesi Müh. Fak. Kimya Müh. Böl.

### **International Researcher IDs**

ORCID: 0000-0002-1427-9183

Publons / Web Of Science ResearcherID: I-6418-2012

Yoksis Researcher ID: 171585

### **Education**

Doctorate, Ataturk University, Fen Bilimleri, Kimya Mühendisliği, Turkey 1996 - 2001

Postgraduate, Ataturk University, Fen Bilimleri, Kimya Mühendisliği, Turkey 1993 - 1996

Undergraduate, Ataturk University, Mühendislik Fak. , Ki,Mya Müh. Böl., Turkey 1989 - 1993

### **Foreign Languages**

English, B1 Intermediate

### **Dissertations**

Doctorate, Farklı Açı�arda Dizayn Edilmiş Gövde Boru Tipli Isı Değiştiricilerde Süt Pastörizasyonunda Oluşan Kirlenme Dirençlerinin İncelenmes, Atatürk Üniversitesi, Temel İşlemler Ve Termodinamik, Kimya Mühendisliği, 2001

Postgraduate, Dik Isıtılmış Silindirik Elektrotlarda Kütle Transferinin İncelenmesi, Atatürk Üniversitesi, Temel İşlemler Ve Termodinamik, Kimya Müh., 1996

### **Research Areas**

Chemical Engineering and Technology, Basic Operations and Thermodynamics, Heat Transfer, Building materials, Composite materials, Engineering and Technology

### **Academic Positions**

Professor, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2021 - Continues

### **Academic and Administrative Experience**

Member of the Senate, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2021 - Continues

## Courses

### Doctorate

Kurutma Teknikleri ve Teknolojisi, Doctorate, 2022 - 2023, 2019 - 2020

### Postgraduate

Isı Değiştiricilerde Kirlenme, Postgraduate, 2023 - 2024, 2022 - 2023

Sürdürülebilir Enerji, Postgraduate, 2018 - 2019

Taşınım Olayları-I, Postgraduate, 2015 - 2016

Korozyon Mühendisliği ve Uygulamaları, Postgraduate, 2013 - 2014

### Undergraduate

Akışkanlar Mekanığı, Undergraduate, 2023 - 2024

Kimya Mühendisliği Lab. III, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Kimya Müh. Lab. II, Undergraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021

Enstrümantal Analiz, Undergraduate, 2021 - 2022

Alternatif Enerji Kaynakları, Undergraduate, 2022 - 2023, 2019 - 2020

Analitik Kimya, Undergraduate, 2020 - 2021, 2019 - 2020

Alternatif Enerji Kaynakları, Undergraduate, 2021 - 2022, 2020 - 2021

Isı Transferi, Undergraduate, 2017 - 2018

Kimya Mühendisliğinde Bilgisayar Uygulamaları, Undergraduate, 2014 - 2015

Kimya Mühendisliğinde Sayısal Yöntemler, Undergraduate, 2012 - 2013

Kimya Mühendisliğine Giriş, Undergraduate, 2011 - 2012

## Supervised Theses

Korkut Ö., Yabani olarak yetişen yemlik (*Tragopogon aureus* Boiss) ve sütleğen (*Euphorbia stricta* L.) bitkilerinden doğal kauçuk elde edilmesi, Postgraduate, E.GEREZ(Student), 2021

KORKUT Ö., CaCl<sub>2</sub> ve glukonik asitle geliştirilmiş dozimetrik fricke jel sistemleri, Postgraduate, S.Aktaş(Student), 2018

KORKUT Ö., Atık lastiklerin pirolizi ile üretilen nano karbon karasının harçta kullanımı ve harçın özelliklerine etkileri, Postgraduate, M.Norouzi(Student), 2016

KORKUT Ö., Toz metalurjisi ile üretilen mağnezyum-alüminyum alaşımlarının hidrojen depolama kapasitelerinin ölçülmesi, Postgraduate, M.Ali(Student), 2008

KORKUT Ö., Isı yalıtım malzemeleri ve arpa samanından ısı iletim katsayısı düşük malzeme üretimi, Postgraduate, G.Binici(Student), 2005

## Jury Memberships

Post Graduate, Post Graduate, Giresun Üniversitesi, February, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ataturk Üniversitesi, December, 2021

Academic Staff Examination, Academic Staff Examination, Ataturk Üniversitesi, September, 2021

Associate Professor Exam, Associate Professor Exam, Ataturk Üniversitesi, August, 2021

## Journal articles indexed in SCI, SSCI, and AHCI

### I. Advancements in Tissue-Equivalent Gel Dosimeters

Sağsöz M. E., Korkut Ö., Gallo S.

- GELS, no.2, 2025 (SCI-Expanded)
- II. **Production of natural rubber from Euphorbia stricta L. and Tragopogon aureus Boiss plants**  
 Gerez E., Korkut Ö., Bayrak B., Kuşlu Y.  
 BIOMASS CONVERSION AND BIOREFINERY, vol.12, no.11, pp.5385-5396, 2022 (SCI-Expanded)
- III. **ELIMINATION OF SUSPENDED MATERIALS IN IRRIGATION WATER WITH DIFFERENT MEDIA FILTERS**  
 Korkutt O., Kymaz S., Kuşlu Y.  
 FRESENIUS ENVIRONMENTAL BULLETIN, vol.30, no.7, pp.8070-8077, 2021 (SCI-Expanded)
- IV. **Effectiveness of activated mistalea (*Viscum album L.*) as a heterogeneous catalyst for biodiesel partial hydrogenation**  
 Erentürk S., Korkut Ö.  
 RENEWABLE ENERGY, vol.117, pp.374-379, 2018 (SCI-Expanded)
- V. **Improving oxidation stability of sunflower biodiesel by partial hydrogenation using a special catalyst**  
 Korkut Ö., Erentuerk S.  
 BIOFUELS BIOPRODUCTS & BIOPROCESSING-BIOFPR, vol.9, no.3, pp.326-334, 2015 (SCI-Expanded)
- VI. **Hydrogen absorption and desorption performance of magnesium-aluminium alloys produced by powder metallurgy**  
 NALBANT M. A., KORKUT Ö.  
 Journal of the Chemical Society of Pakistan, vol.36, no.3, pp.439-445, 2014 (SCI-Expanded)
- VII. **Investigation of adsorption and ultrasound assisted desorption of lead (II) and copper (II) on local bentonite: A modelling study**  
 Korkut Ö., Şayan E., Lacin O., Bayrak B.  
 DESALINATION, vol.259, pp.243-248, 2010 (SCI-Expanded)
- VIII. **Potentiodynamic polarisation technique for corrosion testing of Cr-Co and Cr-Ni alloys in artificial saliva and soft drinks**  
 BAYINDIR F., KORKUT Ö., GUNGOR H.  
 MATERIALS RESEARCH INNOVATIONS, vol.14, no.4, pp.280-284, 2010 (SCI-Expanded)
- IX. **Modeling of adsorption and ultrasonic desorption of cadmium(II) and zinc(II) on local bentonite**  
 Lacin O., Bayrak B., Korkut Ö., Sayan E.  
 JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.292, no.2, pp.330-335, 2005 (SCI-Expanded)
- X. **Natural convection mass transfer behavior of serially connected cylindrical electrodes**  
 ATABEK B., SARAÇ H., Laçin O., KORKUT Ö.  
 Applied Surface Science, vol.230, pp.283-291, 2004 (SCI-Expanded)
- XI. **Investigation of changes in fouling (occurred during milk pasteurization) resistance by alkaline-acidic cleaning solutions**  
 KORKUT Ö., SARAC H., ATABEK B., LAÇİN Ö.  
 Milchwissenschaft, vol.58, pp.409-412, 2003 (SCI-Expanded)
- XII. **External and internal natural convection mass transfer at cylindrical tubular electrodes**  
 Sarac H., Korkut O.  
 JOURNAL OF CHEMICAL ENGINEERING OF JAPAN, vol.32, no.1, pp.130-133, 1999 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Dose response of gluconic acid doped Fricke gels irradiated with X-rays**  
 Korkut Ö., Sağsöz M. E.  
 INTERNATIONAL ADVANCED RESEARCHES and ENGINEERING JOURNAL, vol.5, no.1, pp.47-52, 2021 (Peer-Reviewed Journal)
- II. **Natural Rubber Production from Plants Growing in Nature: Review**  
 Korkut Ö.  
 Uluslararası Doğu Anadolu Fen Mühendislik ve Tasarım Dergisi, vol.2, no.2, pp.216-228, 2020 (Peer-Reviewed)

- Journal)
- III. Preparation of cement based composites and cellulosic panels from barley straw for thermal insulation  
Torun G., Korkut Ö.  
Gazi University Journal of Science, vol.30, no.1, pp.31-42, 2017 (ESCI)
- IV. Study of minimum film boiling at different metal surfaces in KOH solutions and pure water  
LAÇİN O., SARAÇ H., BAYRAK B., KORKUT Ö.  
Gazi Üniversitesi Fen Bilimleri Ens.Dergisi, vol.15, pp.671-677, 2002 (Peer-Reviewed Journal)

### Papers Presented at Peer-Reviewed Scientific Conferences

- I. THE EFFECT OF HYDROXYAPATITE ON THE FLEXURAL STRENGTH OF EXPERIMENTAL DENTAL COMPOSITE RESINS  
SAĞSÖZ Ö., KORKUT Ö.  
8. ULUSLARARASI MÜHENDİSLİK MİMARLIK VE TASARIM KONGRESİ, Turkey, 06 December 2021, (Full Text)
- II. Erzurumda yetişen sütleğen(*Euphorbia stricta L.*) bitkisinden doğal kauçuk üretimi  
Gerez E., Korkut Ö., Bayrak B., Kuşlu Y.  
8th INTERNATIONAL CONGRESS ON ENGINEERING, ARCHITECTURE AND DESIGN, İstanbul, Turkey, 6 - 07 December 2021, pp.632-636, (Full Text)
- III. THE USE OF HEMA GELS WITH DIFFERENT CONTENTS FOR THREE DIMENSIONAL DOSIMETRY SYSTEMS IN RADIOTHERAPY  
Demirci Y., KORKUT Ö., SAĞSÖZ M. E.  
HOCA AHMET YESEVİ 2. ULUSLARARASI BİLİMSEL ARAŞTIRMALAR KONGRESİ, 6 - 08 December 2019, (Full Text)
- IV. Production of Natural Rubber from *Tragopogon Aureus Boiss*  
GEREZ E., KORKUT Ö., KUŞLU Y.  
3rd International Conference on Advanced Engineering Technologies (ICADET), Bayburt, Turkey, 19 - 21 September 2019, vol.1, pp.1193-1195, (Full Text)
- V. MAGIC-Type Polymer Gel for Three-Dimensional Dosimetry in Radiotherapy  
ÇALI E., SAĞSÖZ M. E., KORKUT Ö.  
4th INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL & APPLIED SCIENCES, Ağrı, Turkey, 19 - 22 June 2019, vol.-, pp.288-0, (Summary Text)
- VI. Optical Evaluation of X-Ray Irradiated Fricke Gels Including Gluconic Acid  
AKTAŞ S., KORKUT Ö., SAĞSÖZ M. E.  
1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, Giresun, Turkey, 27 - 29 June 2018, pp.104, (Summary Text)
- VII. Dosimetric Fricke Gel Systems Improved with CaCl<sub>2</sub> and Gluconic Acid  
Aktaş S., KORKUT Ö., SAĞSÖZ M. E.  
International Advanced Researches Engineering Congress-2017, 16 - 18 November 2017, (Full Text)
- VIII. Nano Karbon Karası İlave Edilmiş Harç Karışımlarının Mekanik ve Mikroyapı Özelliklerinin Değerlendirilmesi  
NOROUZİ M., KORKUT Ö., SAĞSÖZ A. E., BEHESTİ GERMİ M. H.  
1st International Mediterranean Science and Engineering Congress, 26 October 2106 - 28 October 2016, (Summary Text)
- IX. Effect of the Carbon Black Obtained From Waste Tyres on the Durability of Mortar Mixtures  
KORKUT Ö., Norouzi M., SAĞSÖZ A. E., Behesti Germi M. H.  
ICENS- International Conference on Engineering and Natural Science, 24 - 28 May 2016, (Summary Text)
- X. Comparison of dosimetry gels prepared by agar and bovine gelatine  
SAĞSÖZ M. E., KORKUT Ö., Alemdar N., Aktaş S., Çali E., Kantarci M.  
1st International Physics Conference at the Anatolian Peak, IPCAP 2016, Erzurum, Turkey, 25 - 27 February 2016, vol.707, (Full Text)

- XI. **Determination of Linear Attenuation Coefficients of Some Dosimetric Materials**  
 SAĞSÖZ M. E., YÜKSEL M., KORKUT Ö., AKTAŞ S., DOĞAN T., TOPAKSU M.  
 International Physics Conference at the Anatolian Peak, IPCAP 2016, 25 - 27 February 2016, (Summary Text)
- XII. **Fire Behavior and Compressing Strength of Cement Based Composites and Cellulosic Panels Produced for Thermal Insulation**  
 BİNİCİ G., KORKUT Ö.  
 ICENS- International Conference on Engineering and Natural Science, 15 - 19 May 2015, (Summary Text)
- XIII. **Upgrading Corn oil Biodiesel Oxidation Stability with Partial Hydrogenation Using A Special Catalyst**  
 KORKUT Ö., ERENTÜRK S.  
 Second International Conference on Environmental Science and Technology ICOEST, 14 May - 17 October 2014, (Full Text)
- XIV. **Süt pasteurizasyonunda oluşan kirlenme dirençlerinin bazik asidik yıkama çözeltileri etkisi ile değişilerinin incelenmesi**  
 KORKUT Ö., SARAÇ H., LAÇİN O., BAYRAK B.  
 Ulusal Kimya Mühendisliği Kongresi-UKMK5, Turkey, 2 - 05 September 2002, (Full Text)
- XV. **Dik silindir elektrotlarda doğal konveksiyonla meydana gelen eş zamanlı ısı ve kütle transferi**  
 KORKUT Ö., SARAÇ H., LAÇİN O., BAYRAK B.  
 Ulusal Kimya Mühendisliği Kongresi-UKMK5, Turkey, 2 - 05 September 2002, (Full Text)
- XVI. **Natural convection mass transfer in serial electrodes**  
 Bayrak B., Saraç H., Laçin O., Korkut Ö.  
 14th International congress of Chemical and Process Engineering-CHISA 2000, Praha, Czech Republic, 27 - 31 August 2000, (Full Text)
- XVII. **The effect of bed height on mass transfer between fluid and immersed object in liquid fluidized bed of spherical inert particles**  
 Laçin O., Saraç H., Bayrak B., Korkut Ö.  
 14th International congress of Chemical and Process Engineering-CHISA 2000, Praha, Czech Republic, 27 - 31 August 2000, (Full Text)

## Funded Projects

- Korkut Ö., Project Supported by Other Official Institutions, Fakültem çiçek açın, 2023 - 2023
- SAĞSÖZ Ö., KORKUT Ö., KAPTI Z. S., Project Supported by Higher Education Institutions, DÜŞÜK POLİMERİZASYON BÜZÜLMESİ GÖSTEREN REZİNLERLE ÜRETİLEN FARKLI DENEYSEL KOMPOZİTLERİN RENKLENME DİRENÇLERİİNİN KARŞILAŞTIRILMASI, 2021 - 2022
- KORKUT Ö., GEREZ E., KUŞLU Y., BAYRAK B., Project Supported by Higher Education Institutions, YABANI OLARAK YETİŞEN BİTKİLERDEN DOĞAL KAUÇUK ELDE EDİLMESİ, 2020 - 2022
- KANTARCI A., KORKUT Ö., Project Supported by Higher Education Institutions, RADYOLOJİK DOZLARIN TESPİTİ MAKSATLI JEL DOZİMETRE MALZEMELERİNİN ÜRETİM VE KARAKTERİZASYONU, 2014 - 2015
- KORKUT Ö., Project Supported by Higher Education Institutions, TÜRKİYE'DE FARKLI KAYNAKLARDAN, FARKLI ÖLÇEKLERDE BİYODİZL ÜRETİMİ MALİYETLERİİNİN İNCELENMESİ, 2012 - 2014

## Peer Reviews in Scientific Publications

- APPLIED ENERGY, SCI Journal, August 2021
- RENEWABLE & SUSTAINABLE ENERGY REVIEWS, SCI Journal, February 2021
- APPLIED ENERGY, SCI Journal, October 2020
- APPLIED ENERGY, SCI Journal, September 2020
- INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, August 2019
- APPLIED ENERGY, SCI Journal, August 2017

## Metrics

Publication: 34

Citation (WoS): 138

Citation (Scopus): 157

H-Index (WoS): 4

H-Index (Scopus): 4

## Awards

Korkut Ö., Bayraktar D., Karahindiba köklerinden doğal kauçuk üretimi, Atatürk Üniversitesi Mühendislik Fakültesi 5. Öğrenci Proje Şenliği, May 2018