

Prof. Özlem KORKUT

Personal Information

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International Researcher IDs

ORCID: 0000-0002-1427-9183

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

Yoksis Researcher ID: 171585

Education Information

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 Açılarda Dizayn Edilmiş Gövde Boru Tipli Isı Değiştiricilerde Süt Pastörizasyonunda Oluşan Kirlenme Dirençlerinin İncelenmesi, 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 Titles / Tasks

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

Staj Başkanı, Ataturk University, Mühendislik Fakültesi, Kimya Mühendisliği, 2018 - Continues

Courses

Akışkanlar Mekaniği, Undergraduate, 2023 - 2024
Isı Değiştiricilerde Kirlenme, Postgraduate, 2023 - 2024, 2022 - 2023
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
Kurutma Teknikleri ve Teknolojisi, Doctorate, 2022 - 2023, 2019 - 2020
Alternatif Enerji Kaynakları, Undergraduate, 2022 - 2023, 2019 - 2020
Analitik Kimya, Undergraduate, 2020 - 2021, 2019 - 2020
Alternatif Enerji Kaynakları, Undergraduate, 2021 - 2022, 2020 - 2021
Sürdürülebilir Enerji, Postgraduate, 2018 - 2019
Isı Transferi, Undergraduate, 2017 - 2018
Taşınım Olayları-I, Postgraduate, 2015 - 2016
Kimya Mühendisliğinde Bilgisayar Uygulamaları, Undergraduate, 2014 - 2015
Korozyon Mühendisliği ve Uygulamaları, Postgraduate, 2013 - 2014
Kimya Mühendisliğinde Sayısal Yöntemler, Undergraduate, 2012 - 2013
Kimya Mühendisliğine Giriş, Undergraduate, 2011 - 2012

Advising 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., CaCl₂ 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 harcın özelliklerine etkileri, Postgraduate, M.Norouzi(Student), 2016
KORKUT Ö., Toz metalurjisi ile üretilen magnezyum-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, Atatürk Üniversitesi, December, 2021
Academic Staff Examination, Academic Staff Examination, Atatürk Üniversitesi, September, 2021
Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, August, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **ELIMINATION OF SUSPENDED MATERIALS IN IRRIGATION WATER WITH DIFFERENT MEDIA FILTERS**
Korkutt O., Kıymaz S., Kuşlu Y.

- FRESENIUS ENVIRONMENTAL BULLETIN, vol.30, no.7, pp.8070-8077, 2021 (SCI-Expanded)
- III. **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)
- IV. **Improving oxidation stability of sunflower biodiesel by partial hydrogenation using a special catalyst**
Korkut Ö., Erentuerk S.
BIOFUELS BIOPRODUCTS & BIOREFINING-BIOFPR, vol.9, no.3, pp.326-334, 2015 (SCI-Expanded)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **Modeling of adsorption and ultrasonic desorption of cadmium(II) and zinc(II) on local bentonite**
Lacin O., Bayrak B., Korkut O., Sayan E.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.292, no.2, pp.330-335, 2005 (SCI-Expanded)
- IX. **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)
- X. **Investigation of changes in fouling (occurred during milk pasteurization) resistance by alkaline-acidic cleaning solutions**
KORKUT Ö., SARAC H., ATABEK B., LAÇIN Ö.
Milchwissenschaft, vol.58, pp.409-412, 2003 (SCI-Expanded)
- XI. **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**

Refereed Congress / Symposium Publications in Proceedings

- 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
- 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
- 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 YESEVİZ.ULUSLARARASI BİLİMSEL ARAŞTIRMALAR KONGRESİ, 6 - 08 December 2019
- 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
- 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
- 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
- VII. **Dosimetric Fricke Gel Systems Improved with CaCl₂ and Gluconic Acid**
Aktaş S., KORKUT Ö., SAĞSÖZ M. E.
International Advanced Researches Engineering Congress-2017, 16 - 18 November 2017
- 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
- IX. **Effect of the Carbon Black Obtained From Waste Tyres on the Durability of Mortar Mixtures**
KORKUT Ö., Norouzi M., SAĞSÖZ A. E., Behesti Germe M. H.
ICENS- International Conference on Engineering and Natural Science, 24 - 28 May 2016
- 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
- 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
- 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

- 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
- XIV. **Süt pastörizasyonunda oluşan kirlenme dirençlerinin bazik asidik yıkama çözeltileri etkisi ile değişilerinin incelenmesi**
KORKUT Ö., SARAÇ H., LAÇIN O., BAYRAK B.
Ulusal Kimya Mühendisliği Kongresi-UKMK5, Turkey, 2 - 05 September 2002
- XV. **Dik silindir elektrotlarda doğal konveksiyonla meydana gelen eş zamanlı ısı ve kütle transferi**
KORKUT Ö., SARAÇ H., LAÇIN O., BAYRAK B.
Ulusal Kimya Mühendisliği Kongresi-UKMK5, Turkey, 2 - 05 September 2002
- 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
- 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

Supported Projects

- Korkut Ö., Project Supported by Other Official Institutions, Fakültem çiçek açsın, 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 DİRENÇLERİNİN KARŞILAŞTIRILMASI, 2021 - 2022
- KORKUT Ö., GEREZ E., KUŞLU Y., BAYRAK B., Project Supported by Higher Education Institutions, YABANI OLARAK YETİŞEN BİTKİLERDEN DOĞAL KAUCUK 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 MALİYETLERİNİN İNCELENMESİ, 2012 - 2014

Scientific Refereeing

- 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
- FUEL, SCI Journal, August 2015

Metrics

- Publication: 33
- Citation (WoS): 139
- Citation (Scopus): 154

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