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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Ataturk University, Mühendislik Fakültesi, Kimya Müh, Turkey 1999 - 2005

Postgraduate, Ataturk University, Mühendislik Fakültesi, Kimya Müh, Turkey 1996 - 1999

Undergraduate, Ataturk University, Mühendislik Fakültesi, Kimya Müh, Turkey 1992 - 1996

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Ham ve kalsine manyezit cevherinin glukonik asit çözeltilerinde çözündürülme kinetiği ve optimizasyonu, Atatürk Üniversitesi, Mühendislik Fakültesi, Kimya Müh, 2005

Postgraduate, Seri bağlı elektrotlarda doğal konveksiyonla kütle transferi, Atatürk Üniversitesi, Mühendislik Fakültesi, Kimya Müh, 1999

Research Areas

Chemical Engineering and Technology, Basic Operations and Thermodynamics, Mass Transfer, Engineering and Technology

Published journal articles indexed by SCI, SSCI, and AHCI

- Synthesis of an innovative SF/NZVI catalyst and investigation of its effectiveness on bio-oil production in liquefaction process alongside other parameters.**
Ersöz K., BAYRAK B., Gündüz F., KARACA H.
Environmental science and pollution research international, vol.31, no.19, pp.27913-27934, 2024 (SCI-Expanded)
- 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. **The synthesis of biochar-supported nano zero-valent iron composite and its adsorption performance in removal of malachite green**
Yildirim G. M., Bayrak B.
BIOMASS CONVERSION AND BIOREFINERY, vol.12, no.10, pp.4785-4797, 2022 (SCI-Expanded)
- IV. **Use of natural and effective mandarin peel in elimination of malachite green from the aqueous media: adsorption properties, kinetics and thermodynamics**
Yalvaç G. M., Bayrak B.
DESALINATION AND WATER TREATMENT, vol.177, pp.176-185, 2020 (SCI-Expanded)
- V. **Synthesis and performance of pomegranate peel-supported zero-valent iron nanoparticles for adsorption of malachite green**
Gunduz F., BAYRAK B.
DESALINATION AND WATER TREATMENT, vol.110, pp.180-192, 2018 (SCI-Expanded)
- VI. **Biosorption of malachite green from an aqueous solution using pomegranate peel: Equilibrium modelling, kinetic and thermodynamic studies**
GÜNDÜZ F., BAYRAK B.
JOURNAL OF MOLECULAR LIQUIDS, vol.243, pp.790-798, 2017 (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. **Kinetic study on the leaching of calcined magnesite in gluconic acid solutions**
Bayrak B., Lacin Ö., Sarac H.
Journal of Industrial and Engineering Chemistry, vol.16, no.3, pp.479-484, 2010 (SCI-Expanded)
- IX. **Dissolution kinetics of natural magnesite in lactic acid solutions**
Bakan F., Lacin O., Bayrak B., Sarac H.
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.80, no.1, pp.27-34, 2006 (SCI-Expanded)
- X. **Investigation of dissolution kinetics of natural magnesite in gluconic acid solutions**
Bayrak B., Lacin Ö., Bakan F., Sarac H.
Chemical Engineering Journal, vol.117, no.2, pp.109-115, 2006 (SCI-Expanded)
- XI. **Modeling of adsorption and ultrasonic desorption of cadmium(II) and zinc(II) on local bentonite**
Lacin O., Bayrak B., Korkut O., Şayan E.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.292, no.2, pp.330-335, 2005 (SCI-Expanded)
- XII. **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)
- XIII. **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)

Articles Published in Other Journals

- I. **Gaz Kromatografisi/Kütle Spektrometrisi ile Sudaki Pestisit Kalıntılarının Eşzamanlı Olarak Belirlenmesi için Çoklu Kalıntı Metodu Geliştirilmesi**
BAYRAK B.
European Journal of Science and Technology, no.16, pp.84-91, 2019 (Peer-Reviewed Journal)
- II. **Method Development and Validation for the Determination of Pesticide Residues in Water by GC-NPD(Sudaki Pestisit Kalıntılarının Belirlenmesi için GC-NPD Kullanılarak Method Geliştirilmesi ve Validasyonu)**

BAYRAK B.

Journal of the Institute of Science and Technology-Iğdır Üni. Fen Bilimleri Enst. Der, vol.8, pp.133-141, 2018 (Peer-Reviewed Journal)

III. **HAM MANYEZİT CEVHERİNİN GLUKONİK ASİT ÇÖZELTİLERİNDE ÇÖZÜNDÜRÜLMESİNİN OPTİMİZASYONU**

LAÇİN Ö., BAYRAK B., SARAÇ H.

Anadolu University Journal of Science and Technology-A Applied Sciences and Engineering, vol.16, no.2, pp.195, 2015 (Peer-Reviewed Journal)

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)

Refereed Congress / Symposium Publications in Proceedings

I. **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

II. **The Investigation Of Removal Of Malachite Green From Aqueous Medium Using Carbonized Mandarin Peel**

Yalvaç G. M., Bayrak B.

İtesdes, Giresun, Turkey, 27 - 29 June 2018, pp.5

III. **The Removal of Malachite Green with Synthesized NZVI / CMP Adsorbent**

Yalvaç G. M., Bayrak B.

Icelis, Kastamonu, Turkey, 26 - 29 April 2018, pp.280

IV. **Development of a New Multi Residue Method for Determination of Five Pesticides in Water by GC Mass**

Bayrak B.

International Conference on Engineering and Natural Sciences-İcens2016, Sarajevo, Bosnia And Herzegovina, 24 - 28 May 2016

V. **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

VI. **Development and Validation of a Multiresidue Method for the Determination of Pesticide Residues in Water by GC NPD**

Bayrak B.

International conference on engineering and natural sciences-İCENS 2015, Skopje, Macedonia, 15 - 19 May 2015

VII. **Ham Manyezit Cevherinin Glukonik Asit Çözeltilerinde Çözündürülmesinin Optimizasyonu**

Bayrak B., Laçin O., Saraç H.

Ulusal Kimya Mühendisliği Kongresi UKMK-11, Eskişehir, Turkey, 2 - 05 September 2014

VIII. **Manyezit cevherinin laktik asit çözeltilerindeki çözünürlük kinetiği**

BAKAN F., LAÇİN O., SARAÇ H., BAYRAK B.

Ulusal Kimya Mühendisliği Kongresi-UKMK6, Turkey, 7 - 10 September 2004

IX. **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

X. **Süt pastörizasyonunda 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

XI. Natural convection mass transfer in serial electrodes

Bayrak B., Saraç H., Laçın O., Korkut Ö.

14th International congress of Chemical and Process Engineering-CHISA 2000, Praha, Czech Republic, 27 - 31 August 2000

XII. The effect of bed height on mass transfer between fluid and immersed object in liquid fluidized bed of spherical inert particles

Laçın 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

BAYRAK B., ERSÖZ K., Project Supported by Higher Education Institutions, SIVILAŞTIRMA YÖNTEMİ İLE ALTERNATİF YAKIT ÜRETİMİNDE DESTEKLİ DEMİR VE NİKEL NANO BİMETALİK KATALİZÖRLERİN ETKİNLİĞİNİN İNCELENMESİ, 2023 - 2024

BAYRAK B., ERSÖZ K., Project Supported by Higher Education Institutions, SİLİS DUMANI DESTEKLİ SIFIR DEĞERLİKLİ NANO DEMİR KOMPOZİTİN SENTEZLENMESİ VE BİYOYAĞ ÜRETİMİ İÇİN KATALİZÖR OLARAK ETKİNLİĞİ, 2022 - 2023

BAYRAK B., Project Supported by Higher Education Institutions, UBYT nedeniyle alınacak desteğin Daytam analizlerinde kullanılması, 2021 - 2022

KORKUT Ö., GERİZ E., KUŞLU Y., BAYRAK B., Project Supported by Higher Education Institutions, YABANI OLARAK YETİŞEN BİTKİLERDEN DOĞAL KAÇUK ELDE EDİLMESİ, 2020 - 2022

BAYRAK B., Project Supported by Higher Education Institutions, NAR KABUĞU VE SIFIR DEĞERLİKLİ NANODEMİRDEN ELDE EDİLEN AKTİF KARBON YARDIMIYLA MALAHİT YEŞİLİNİN UZAKLAŞTIRILMASI, 2016 - 2018

Bayrak B., Biringen Loker G., TUBITAK Project, TARAL1007 107G208 Ulusal gıda kompozisyonunun belirlenmesi ve yaygın sürekli paylaşım sisteminin oluşturulması, 2008 - 2011

Bayrak B., Saraç H., Project Supported by Higher Education Institutions, Manyezit cevherinden elektrokimyasal yöntemle magnezyum metali üretimi, 2001 - 2003

Metrics

Publication: 30

Citation (WoS): 401

Citation (Scopus): 435

H-Index (WoS): 9

H-Index (Scopus): 9