

Prof. ÜNSAL AÇIKEL

Personal Information

Email: uacikel@cumhuriyet.edu.tr

Web: <https://avesis.cumhuriyet.edu.tr/uacikel>

Courses

Kim.Müh.Tas. - I, Undergraduate, 2019 - 2020

Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020

Katalizleme, Doctorate, 2019 - 2020

Seminer Dersi, Doctorate, 2019 - 2020

Kim.Müh.Tas. - II, Undergraduate, 2018 - 2019

Kim.Müh.Tas. - II, Undergraduate, 2018 - 2019

Bitirme Ödevi, Undergraduate, 2019 - 2020

İleri Isı Aktarımı, Postgraduate, 2019 - 2020

Seminer Dersi, Postgraduate, 2018 - 2019

Kimya Mühendisliğine Giriş, Undergraduate, 2018 - 2019

Uzmanlık Alan Dersi, Doctorate, 2019 - 2020

Bitirme Ödevi, Undergraduate, 2018 - 2019

Kimya Mühendisliği Ekonomisi, Undergraduate, 2018 - 2019

Tez Çalışması, Postgraduate, 2018 - 2019

Tez Çalışması, Doctorate, 2018 - 2019

Mühendislik Projeleri, Undergraduate, 2017 - 2018

Kim.Müh.Lab. - II, Undergraduate, 2016 - 2017

Kimya Mühendisliğine Giriş, Undergraduate, 2016 - 2017

Mühendislik Projeleri, Undergraduate, 2017 - 2018

Kimya Mühendisliği Ekonomisi, Undergraduate, 2017 - 2018

Kim.Müh.Tas. - I, Undergraduate, 2017 - 2018

İleri Kimyasal Tepkime Mühendisliği, Postgraduate, 2013 - 2014

Kim Müh.Ekonomisi, Undergraduate, 2014 - 2015

Kim.Müh.Lab. - II, Undergraduate, 2011 - 2012

Kimyasal Tepkime Müh. - II, Undergraduate, 2011 - 2012

Polimer Kim., Undergraduate, 2012 - 2013

FizikoKimya Lab., Undergraduate, 2012 - 2013

Kimyasal Tepkime Müh. - II, Undergraduate, 2011 - 2012

Statik, Undergraduate, 2012 - 2013

Temel Bilgisayar Bilimleri, Undergraduate, 2010 - 2011

Kimyasal Tepkime Müh. - I, Undergraduate, 2011 - 2012

Analitik Kimya Lab., Undergraduate, 2010 - 2011

Kimyasal Tekn. Lab., Undergraduate, 2010 - 2011

Analitik Kimya Lab., Undergraduate, 2010 - 2011

Kimyasal Tepkime Müh. - I, Undergraduate, 2011 - 2012

Mukavemet, Undergraduate, 2009 - 2010

Enstrümental Anlz.Lab., Undergraduate, 2009 - 2010

Analitik Kimya, Undergraduate, 2010 - 2011

Analitik Kimya, Undergraduate, 2010 - 2011
Mukavemet, Undergraduate, 2009 - 2010
Malzeme, Undergraduate, 2009 - 2010
Malzeme, Undergraduate, 2009 - 2010
Kim Müh.Ekonomisi, Undergraduate, 2009 - 2010
Kımyasal Tekn. Lab., Undergraduate, 2009 - 2010
Kim. Müh. Lab. - I, Undergraduate, 2007 - 2008
Kim. Tepk.Müh. - II, Undergraduate, 2005 - 2006
Kim. Tepk.Müh. - I, Undergraduate, 2005 - 2006
Kim. Tepk.Müh. - I, Undergraduate, 2005 - 2006
Temel Bilgisayar Bilimleri, Undergraduate, 2003 - 2004

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Comparison of the bioaccumulation and biosorption of copper ions by Rhizopus delemar and Candida lipolytica**
BAŞKAN G., AÇIKEL Ü.
Bioremediation Journal, 2024 (SCI-Expanded)
- II. **Removal of oxytetracycline hydrochloride from aqueous solutions using natural zeolite Oksitetasiklin hidroklorürün doğal zeolit ile sulu çözeltilerden giderimi**
Başkan G., AÇIKEL Ü., Levent M.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.38, no.3, pp.1505-1517, 2023 (SCI-Expanded)
- III. **Investigation of adsorption properties of oxytetracycline hydrochloride on magnetic zeolite/Fe3O4 particles**
Baskan G., AÇIKEL Ü., LEVENT M.
ADVANCED POWDER TECHNOLOGY, vol.33, no.6, 2022 (SCI-Expanded)
- IV. **Intake of divalent copper and nickel onto natural zeolite from aqueous solutions: a study in mono- And dicomponent systems**
Tekin B., AÇIKEL Ü.
Turkish Journal of Chemistry, vol.46, no.4, pp.1042-1054, 2022 (SCI-Expanded)
- V. **Efficient adsorption of Basic Blue 41 from textile wastewaters by natural and magnetically modified Manisa-Gordes clinoptilolite**
Mersin G., AÇIKEL Ü., LEVENT M.
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.169, 2021 (SCI-Expanded)
- VI. **Anaerobic digestion of sugar beet pulp after acid thermal and alkali thermal pretreatments**
ŞENOL H., AÇIKEL Ü., Oda V.
BIOMASS CONVERSION AND BIOREFINERY, vol.11, no.3, pp.895-905, 2021 (SCI-Expanded)
- VII. **Anaerobic digestion of cattle manure, corn silage and sugar beet pulp mixtures after thermal pretreatment and kinetic modeling study**
ŞENOL H., AÇIKEL Ü., DEMİR S., Oda V.
FUEL, vol.263, 2020 (SCI-Expanded)
- VIII. **Removal of tetracycline by biocomposites synthesized with immobilization of Rhizopus delamar and Candida types**
Kip F., AÇIKEL Ü.
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.3, pp.1418-1426, 2019 (SCI-Expanded)
- IX. **Investigation of inhibition kinetics of Zn(II) Ions on the acid phosphatase activity and growth of R- delemar and Zn(II) bioaccumulation**
AÇIKEL Ü., ERŞAN M.

- DESALINATION AND WATER TREATMENT, vol.57, no.8, pp.3689-3699, 2016 (SCI-Expanded)
- X. **Synthesis of hydroxyapatite/clay and hydroxyapatite/pumice composites for tetracycline removal from aqueous solutions**
 ERŞAN M., GÜLER Ü. A., AÇIKEL Ü., SARIOĞLU CEBECİ M.
 PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.96, pp.22-32, 2015 (SCI-Expanded)
- XI. **STUDY OF LIPASE ENZYME ACTIVITY WITH *Candida utilis* YEAST IN DIFFERENT MEDIA CONDITION**
 KEKLİKÇİOĞLU ÇAKMAK N., AÇIKEL Ü.
 JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.30, no.3, pp.475-485, 2015 (SCI-Expanded)
- XII. **OPTIMIZATION OF ACID PHOSPHATASE PRODUCTION AND ZN(II) BIOACCUMULATION by R. delemar USING RESPONSE SURFACE METHOD**
 ERŞAN M., AÇIKEL Ü.
 JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.29, no.2, pp.321-329, 2014 (SCI-Expanded)
- XIII. **EFFECTS OF STIRRING AND AERATION RATES ON LIPASE PRODUCTION AND GROWTH OF R. DELEMAR IN THE MEDIA CONTAINING GLUCOSE OR MOLASSES SUCROSE AND PFC**
 Sag Acikel Y., ERŞAN M., AÇIKEL Ü.
 JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.28, no.4, pp.811-818, 2013 (SCI-Expanded)
- XIV. **Effects of stirring and aeration rates on lipase production and growth of R. delemar**
 ERŞAN M., AÇIKEL Ü., SAĞ AÇIKEL Y.
 NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- XV. **Comparison of heavy metal uptake capacities of growing, resting and dead cells of R. delemar via acid phosphatase activity**
 ERŞAN M., AÇIKEL Ü.
 NEW BIOTECHNOLOGY, vol.29, 2012 (SCI-Expanded)
- XVI. **Equilibrium, hysteresis and kinetics of cadmium desorption from sodium-feldspar using rhamnolipid biosurfactant**
 AŞÇI Y., AÇIKEL Ü., SAĞ AÇIKEL Y.
 ENVIRONMENTAL TECHNOLOGY, vol.33, no.16, pp.1857-1868, 2012 (SCI-Expanded)
- XVII. **The effects of the composition of growth medium and fermentation conditions on the production of lipase by R. delemar**
 AÇIKEL Ü., ERŞAN M., SAĞ AÇIKEL Y.
 TURKISH JOURNAL OF BIOLOGY, vol.35, no.1, pp.35-44, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **The Effects of Heavy Metals and Molasses on Enzyme Activity of *Candida* Yeast**
 MERSİN G., Açıkel Ü.
 Cumhuriyet Science Journal, vol.44, no.3, pp.497-503, 2023 (Peer-Reviewed Journal)
- II. **Adsorption Isotherms for Removal of Heavy Metal Ions (Copper and Nickel) from Aqueous Solutions in Single and Binary Adsorption Processes**
 Tekin B., AÇIKEL Ü.
 Gazi University Journal of Science, vol.36, no.2, pp.495-509, 2023 (Scopus)
- III. **ZnO-Kitosan Kompoziti ile Ağır Metal Giderimi**
 TOPAL CANBAZ G., AÇIKEL Ü., SAĞ AÇIKEL Y.
 Avrupa Bilim ve Teknoloji Dergisi, no.35, pp.603-609, 2022 (Peer-Reviewed Journal)
- IV. **PRODUCTION OF *Candida* BIOMASSES FOR HEAVY METAL REMOVAL FROM WASTEWATERS**
 Mersin G., AÇIKEL Ü.
 TRAKYA UNIVERSITY JOURNAL OF NATURAL SCIENCES, vol.22, no.1, pp.67-76, 2021 (ESCI)

- V. **Evsel Organik Atıklardan Biyogaz Üretiminin İncelenmesi**
 ŞENOL H., AÇIKEL Ü.
 Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.8, no.1, pp.132-142, 2019 (Peer-Reviewed Journal)
- VI. **Investigation of Adsorption of Cu (II) Heavy Metal with Bentonite**
 ŞENOL H., AÇIKEL Ü.
 Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.7, no.2, pp.231-242, 2018 (Peer-Reviewed Journal)
- VII. **Farklı Ham Sığır Gübresi/Mezbaha atıkları Karışım Oranlarının Biyogaz Üretimi Üzerindeki Etkisinin Araştırılması**
 ŞENOL H., ELİBOL E. A., AÇIKEL Ü., YALÇIN A.
 bitlis eren üniversitesi fen bilimleri dergisi, vol.7, no.1, pp.11-21, 2018 (Peer-Reviewed Journal)
- VIII. **The Investigation of Ni (II) Removal by Biocomposite Synthesized with the Immobilization of Candida Utilis on Chitosan**
 KİP F., AÇIKEL Ü.
 Cumhuriyet Science Journal, vol.39, no.2, pp.469-476, 2018 (Peer-Reviewed Journal)
- IX. **Biyogaz Üretimi İçin Ankara'nın Başlıca Organik Atık Kaynakları**
 ŞENOL H., ELİBOL E. A., AÇIKEL Ü., ŞENOL M.
 Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.6, no.2, pp.15-28, 2017 (Peer-Reviewed Journal)
- X. **Türkiye'de Biyogaz Üretimi İçin Başlıca Biyokütle Kaynakları**
 ŞENOL H., ELİBOL E. A., AÇIKEL Ü., ŞENOL M.
 Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.6, no.2, pp.81-92, 2017 (Peer-Reviewed Journal)
- XI. **Investigation of Acid Orange 74 Dye Adsorption with Anaerobic Activated Sludge**
 TOPAL G., AÇIKEL Ü., SAĞ AÇIKEL Y.
 International Journal of Food and Biosystems Engineering, vol.4, no.1, pp.91-96, 2017 (Peer-Reviewed Journal)
- XII. **2016'da Türkiye'de Kanatlı Hayvanlardan Üretilebilecek Biyogaz ve Elektrik Enerji Potansiyeli**
 ŞENOL H., ELİBOL E. A., AÇIKEL Ü., ŞENOL M.
 Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.6, no.1, pp.1-11, 2017 (Peer-Reviewed Journal)
- XIII. **Removal of Tetracycline by Candida utilis-Polyacrylonitrile Biocomposites**
 KİP F., AÇIKEL Ü.
 International Journal of Food and Biosystems Engineering, vol.4, no.1, pp.82-90, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Phenol Removal from Aqueous Environments with ZnO Nanoparticles Produced from Onion Peel Wastes by Green Synthesis**
 TOPAL CANBAZ G., AÇIKEL Ü., SAĞ AÇIKEL Y.
 5 th EurAsia Waste Management Symposium, 26 - 28 October 2020
- II. **Green Synthesis of ZnO Nanoparticles from Onion Peel Wastes**
 TOPAL CANBAZ G., AÇIKEL Ü., SAĞ AÇIKEL Y.
 5 th EurAsia Waste Management Symposium, 26 - 28 October 2020
- III. **Experimental Investigation of Biogas Production in Organic Garbage Waste**
 ÖZBİLGİN F., AÇIKEL Ü., ELİBOL E. A., DEMİR S., YALÇIN A., ŞENOL H.
 1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, 27 June 2018
- IV. **FARKLI TARIMSAL ATIKLAR VE SİĞIR GÜBRESİ KARIŞIMLARINDAN BİYOGAZ ÜRETİMİNİN İNCELENMESİ**
 ŞENOL H., TOPAL CANBAZ G., AÇIKEL Ü., DEMİR S., YALÇIN A., CEBECİ M. U.
 IV. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, 18 - 20 April 2018
- V. **BİRTAKIM ÇEŞİTLİ MUTFAK ATIKLARI VE SİĞIR GÜBRESİ KARIŞIMLARINDAN MEZOFİLİK ŞARTLarda BİYOGAZ ÜRETİMİNİN İNCELENMESİ**
 DEMİR S., AÇIKEL Ü., TOPAL CANBAZ G., YALÇIN A., ELİBOL E. A., ŞENOL H.
 IV. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, 18 - 20 April 2018

- VI. **ULTRASONİK ÖNİŞLEM UYGULANARAK MISIR KOÇANI VE SİĞİR GÜBRESİ KARIŞIMINDAN BİYOGAZ ÜRETİMİNİN İNCELENMESİ**
ELİBOL E. A., AÇIKEL Ü., DEMİR S., YALÇIN A., TOPAL CANBAZ G., ŞENOL H.
IV. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, 18 - 20 April 2018
- VII. **KARADENİZ BÖLGESİNİN İLLERE GÖRE MUTFAK ATIKLARINDAN ÜRETİLEBİLECEK BİYOGAZ POTANSİYELİNİN BELİRLENMESİ**
ŞENOL H., ELİBOL E. A., AÇIKEL Ü., DEMİR S., TOPAL CANBAZ G., ŞENOL M.
IV. Uluslararası Katılımlı Anadolu Enerji Sempozyumu, 18 - 20 April 2018
- VIII. **Green Synthesis of Nanoparticles and Their Applications**
TOPAL CANBAZ G., KEKLİKÇİOĞLU ÇAKMAK N., KÜÇÜKYAZICI M., AÇIKEL Ü.
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), 26 - 27 April 2018
- IX. **Equilibrium and Thermodynamic Studies for Adsorption of Heavy Metal on TiO₂/Activated Sludge**
TOPAL CANBAZ G., KEKLİKÇİOĞLU ÇAKMAK N., KÜÇÜKYAZICI M., AÇIKEL Ü.
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), 26 - 27 April 2018
- X. **Equilibrium and Thermodynamic Studies for Adsorption of Cu(II) on Activated Sludge**
TOPAL CANBAZ G., AÇIKEL Ü., SAĞ AÇIKEL Y.
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), 26 - 27 April 2018
- XI. **Photocatalytic TiO₂ Nanoparticles**
KEKLİKÇİOĞLU ÇAKMAK N., TOPAL CANBAZ G., EROĞLU A., AÇIKEL Ü.
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), 26 - 27 April 2018
- XII. **Biosynthesis of Silver Nanoparticles by Persea Americana**
TOPAL CANBAZ G., AÇIKEL Ü., SAĞ AÇIKEL Y.
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), 26 - 27 April 2018
- XIII. **Removal of dye materials from wastewater with nanomaterials**
TOPAL G., KEKLİKÇİOĞLU ÇAKMAK N., eroğlu a., AÇIKEL Ü.
International Advanced Researches and Engineering Congress, 16 November - 29 December 2017
- XIV. **Investigation of Acid Orange 74 Dye Adsorption with Anaerobic Activated Sludge**
TOPAL G., AÇIKEL Ü., SAĞ AÇIKEL Y.
3rd FaBE 2017 - International Conference on Food and Biosystems Engineering, 1 - 04 June 2017
- XV. **Removal of Tetracycline by Candida utilis-Polyacrylonitrile Biocomposites**
AÇIKEL Ü., KİP F.
3rd FaBE 2017, International Journal of Food and Biosystems Engineering, 1 - 04 June 2017
- XVI. **Granit ile Cu(II) adsorpsiyonu**
TOPAL G., AÇIKEL Ü.
12. Ulusal Kimya Mühendisliği Kongresi, Turkey, 23 - 26 August 2016
- XVII. **REMoval OF Cu II AND Ni II IONS FROM WASTEWATER BY CANDIDA SPECIES**
Mersin G., AÇIKEL Ü.
Desalination for the Environment, Clean Water and Energy, 22 - 26 May 2016
- XVIII. **Comparative adsorption of metal ion and anionic dye with activated sludge**
TOPAL G., AÇIKEL Ü.
World Multidisciplinary Earth Sciences Symposium, 7 - 11 September 2015
- XIX. **The detection lipase activity and microbiological quality of sterile milk**
ERŞAN M., CAN Ö. P., AÇIKEL Ü., DÜĞENCİ F.
44. World Chemistry Congress, İstanbul, Turkey, 11 August 2013
- XX. **Cevap Yüzey Yöntemi Kullanarak Hidroksiapatit Kil Kompoziti ile Cu II Giderimi İçin Optimum Deney Koşullarının Belirlenmesi**

- ERŞAN M., AÇIKEL Ü., ALTINOK Y., DÜĞENCİ F.
26. Ulusal Kimya Kongresi, Muğla, Turkey, 01 October 2012
- XXI. **Rhizopus delemar in üreyen ya  ve kuru h crelerinin Ni II biyosorpsiyon kapasitelerinin karşılaştırılması**
ER SAN M., AÇIKEL Ü.
10. Ulusal Kimya M hendisli i Kongresi, İstanbul, Turkey, 03 September 2012
- XXII. **Rhizopus delemar ile asit fosfataz üretiminin incelenmesi**
ER SAN M., AÇIKEL Ü.
10. Ulusal Kimya M hendisli i Kongresi, İstanbul, Turkey, 03 September 2012
- XXIII. **Effects of stirring and aeration rates on lipase production and growth of R delemar**
ER SAN M., AÇIKEL Ü., SA G AÇIKEL Y.
15TH European Congress on Biotechnology, İstanbul, Turkey, 23 June 2012
- XXIV. **Comparison of heavy metal uptake capacities of growing resting and dead cells of R delemar via acid phosphatase activity**
ER SAN M., AÇIKEL Ü.
15TH European Congress on Biotechnology, İstanbul, Turkey, 23 June 2012
- XXV. **Lipaz Enzimi Aktivitesine Ba lang ç Sakkaroz Der siminin ve Ortamda Bulunan Bakır II ve Nikel II İyonlarının Etkisi**
KEKL K O LU  AKMAK N., AÇIKEL Ü.
25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011
- XXVI. **Candida Utilis in Lipaz Enzimi Aktivitesine Ba lang ç Sakkaroz Der siminin ve Aktivat r Ya lar n Etkisi**
KEKL K O LU  AKMAK N., AÇIKEL Ü.
9. Ulusal Kimya M hendisli i Kongresi, Ankara, Turkey, 22 - 25 June 2010
- XXVII. **R delemar mantar  ile asit fosfataz üretim koşullar n n incelenmesi**
ER SAN M., AÇIKEL Ü.
9. Ulusal Kimya M hendisli i Kongresi, Ankara, Turkey, 22 June 2010
- XXVIII. **Candida utilis ve Rhizopus delemar mikroorganizmalar n n lipaz enzimi üretim n n karşıla t rm l  incelenmesi**
ER SAN M., KEKL K O LU  AKMAK N., AÇIKEL Ü., SA G AÇIKEL Y.
23. Ulusal Kimya Kongresi, Sivas, Turkey, 16 - 20 June 2009
- XXIX. **Effects of surfactants activators and inhibitors on lipase production by R delemar**
AÇIKEL Ü., ER SAN M., SA G AÇIKEL Y.
Somer Symposium, Ankara, Turkey, 14 May 2007

Metrics

Publication: 62
Citation (WoS): 108
Citation (Scopus): 37
H-Index (WoS): 3
H-Index (Scopus): 2