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ScopusID: 7004651435

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Education Information

Doctorate, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliđi, Turkey 1988 - 1993

Foreign Languages

English, C1 Advanced

Research Areas

Chemistry, Natural Sciences

Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliđi Bölümü, 2002 - Continues

Associate Professor, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliđi Bölümü, 1994 - 2002

Research Assistant, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliđi Bölümü, 1986 - 1998

Advising Theses

Sađ Ađikel Y., Kolon Kanseri Tedavisi İin Folik Asit Reseptör Hedefli Pektin ile Kaplı Pullulan Bazlı Nanopartiküllerden Kemoterapötik-Kemopreventif İla – Etken Madde Kombinasyonlarının Sıralı Salımının İncelenmesi, Doctorate, A.Burcu(Student), Continues

Sađ Ađikel Y., Kitosan Nano Partiküllerine Kapsüllenmiş Aloe Vera ve Yeşil ay Ekstraktlarının Yara İyileşmesi Üzerindeki Etkilerinin Karşılaştırmalı Araştırılması, Doctorate, E.Uzunhasanođlu(Student), Continues

Sađ Ađikel Y., Poli(laktik-ko-glikolik asit) -Kitosan ekirdek/Kabuk Nanopartiküllerden Kemopreventif ve Kemoterapötik Özellikteki Piperin ve Epigallokateşin Gallat' ın Sıralı Salımının İncelenmesi, Postgraduate, D.Gürel(Student), Continues

Sađ Ađikel Y., Kontrollü ve Sıralı Büyüme Faktörü Salımı için Manyetik Silika/Aljinat Mikroküreler Kullanılarak Manyetik Duyarlı Kemik Doku İskelelerinin Geliştirilmesi, Doctorate, G.Polat(Student), Continues

Sağ Açıkel Y., Meme Kanseri İçin Hedeflenebilir İlaç Salım Sistemi Olarak İkili İlaç Yüklü Kitosan Kaplı Karboksimetil Selüloz-Zein Nanopartiküllerinin Araştırılması, Doctorate, M.Öztekin(Student), Continues

Sağ Açıkel Y., Meme Kanseri İçin Hedeflenebilir İlaç Salım Sistemi Olarak İkili İlaç Yüklü Albümin Bazlı Nanopartiküllerin Geliştirilmesi, Doctorate, E.Türkeş(Student), Continues

Sağ Açıkel Y., Kitosan ve Haloysit Bazlı Nanopartiküller Kullanılarak Kesikli Karıştırmalı Kaplarda Adsorpsiyon Yoluyla Sulu Ortamlardan Antibiyotik Giderimi, Postgraduate, S.ERDEM(Student), 2018

Sağ Açıkel Y., Aljinat-Haloysit Biyokompozitlere Ciprofloxacın Yüklenmesi, Salımı ve Adsorpsiyonunun İncelenmesi, Postgraduate, Ö.CAN(Student), 2018

Sağ Açıkel Y., Kansere Tedavisinde Kullanılan Resveratrolün İlaç Taşıyıcı Sistem Olarak Kitosan-Aljinat Kompozit Biyojellere Yüklenmesi ve Salımının İncelenmesi, Postgraduate, A.BURCU(Student), 2018

SAĞ AÇIKEL Y., Manyetik kitosan-haloysit nanokompozitlerin üretilmesi ve karakterizasyonu: Cr ve metilen mavisi adsorpsiyonunun incelenmesi, Postgraduate, E.TÜRKEŞ(Student), 2017

SAĞ AÇIKEL Y., Kitosan nanopartiküllerine ve kitosan-haloysit nanokompozitlerine metronidazole yüklenmesi, salımını ve adsorpsiyonunun incelenmesi, Postgraduate, M.ÖZTEKİN(Student), 2017

SAĞ AÇIKEL Y., Manyetik kitosan-haloysit-demir oksit nanokompozitlerine tetrasiklin yüklenmesi, karakterizasyonu, salımını ve adsorpsiyonunun incelenmesi, Postgraduate, P.RAEIATBIN(Student), 2017

SAĞ AÇIKEL Y., Manyetik haloysit nanotüpler-aljinat hibrit kürelerin sentezlenmesi ve karakterizasyonu: Sulu ortamlardan Pb, metilen mavisi ve direkt mavi 71'in gideriminde kullanılması, Postgraduate, G.POLAT(Student), 2017

SAĞ AÇIKEL Y., Sulu ortamdan ağır metal iyonlarının ve boyar maddelerin mikropolimerik malzemeler, kitin ve kitosan kullanılarak adsorpsiyon yöntemiyle giderilmesi, Postgraduate, B.GÖZE(Student), 2013

SAĞ AÇIKEL Y., Rhizopus delemar ile ağır metal biyobirikiminin ve ağır metal iyonlarının enzimatik faaliyetler üzerine interaktif etkileşimlerinin incelenmesi, Doctorate, O.AHMET(Student), 2011

SAĞ AÇIKEL Y., Toprak ve toprak bileşenlerine Cd(II) iyonlarının adsorpsiyonunun ve rhamnolipid biyosurfaktanla bu iyonların geri kazanımının incelenmesi, Doctorate, Y.AŞÇI(Student), 2006

SAĞ AÇIKEL Y., Rhizopus delemar ile lipaz üretimi, Postgraduate, B.ÇELEBİ(Student), 2005

SAĞ AÇIKEL Y., Rhamnolipid biyosurfaktantlarla topraktaki ve sulu ortamdaki ağır metal iyon kirliliğinin giderilmesi, Postgraduate, H.ŞAHİN(Student), 2004

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Sağ Açıkel Y., Üçlü ve dördü ağır metal iyonlarının yarışmalı biyosorbisyonunun, kesikli karıştırmalı ve kolon tipi reaktörde incelenmesi, Postgraduate, B.Akçael(Student), 2000

Sağ Açıkel Y., İkili ve üçlü ağır metal iyon karışımlarının R. arrhizus' a çok bileşenli biyosorbisyonunun incelenmesi ve yarışmalı adsorpsiyon modellerinin uygulanması, Postgraduate, A.Kaya(Student), 1998

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Folic acid-conjugated cancer drug curcumin-loaded albumin nanoparticles: Investigation of curcumin release kinetics**
Türkeş E., SAĞ AÇIKEL Y.
Journal of Drug Delivery Science and Technology, vol.91, 2024 (SCI-Expanded)
- II. **Simultaneous removal of Methylene Blue and Direct Blue 71 with Pb(II) ions from multi-component systems: application of the multi-component Langmuir model**
Polat G., Türkeş E., Açıkel Y.
Desalination and Water Treatment, vol.289, pp.206-220, 2023 (SCI-Expanded)
- III. **Removal of heavy metal by using green synthesis ZnO NPs and ZnO-HNT composite**
Canbaz G. T., AÇIKEL Ü., Açıkel Y.
Biomass Conversion and Biorefinery, 2023 (SCI-Expanded)
- IV. **Investigation of adsorption of metronidazole on Chitosan - Haloysite nanocomposites and controlled release**
Oztekin M., SAĞ AÇIKEL Y.

INDIAN JOURNAL OF CHEMICAL TECHNOLOGY, vol.27, no.2, pp.101-115, 2020 (SCI-Expanded)

- V. **Loading of cancer drug resveratrol to pH-Sensitive, smart, alginate-chitosan hydrogels and investigation of controlled release kinetics**
Nazli A. B., Acikel Y.
JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY, vol.53, 2019 (SCI-Expanded)
- VI. **Synthesis and Characterization of Magnetic Halloysite-Alginate Beads for the Removal of Lead(II) Ions from Aqueous Solutions**
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JOURNAL OF POLYMERS AND THE ENVIRONMENT, vol.27, no.9, pp.1971-1987, 2019 (SCI-Expanded)
- VII. **Synthesis and characterization of magnetic halloysite-chitosan nanocomposites: use in the removal of methylene blue in wastewaters**
Türkeş E., Sağ Açikel Y.
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- VIII. **Use of magnetic halloysite nanotubes-alginate hybrid spheres in the treatment of dyes**
Polat G., Acikel Y.
NEW BIOTECHNOLOGY, vol.44, 2018 (SCI-Expanded)
- IX. **Removal of tetracycline by magnetic chitosan nanoparticles from medical wastewaters**
RAEIATBIN P., Acikel Y. S.
DESALINATION AND WATER TREATMENT, vol.73, pp.380-388, 2017 (SCI-Expanded)
- X. **Removal of Methyl Red, a cationic dye, Acid Blue 113, an anionic dye, from wastewaters using chitin and chitosan: influence of copper ions**
Acikel Y., GOZE B.
DESALINATION AND WATER TREATMENT, vol.73, pp.289-300, 2017 (SCI-Expanded)
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- XII. **Investigation of mutual interactions of physicochemical parameters on simultaneous Zn II bioaccumulation and lipase production of R delemar**
EVİRGEN A., SAĞ AÇIKEL Y.
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- XIII. **Simultaneous copper bioaccumulation, growth and lipase production of Rhizopus delemar in molasses medium: optimisation of environmental conditions using RSM**
EVIRGEN O. A., Acikel Y. S.
CHEMISTRY AND ECOLOGY, vol.30, no.1, pp.39-51, 2014 (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. **Equilibrium hysteresis and kinetics of cadmium desorption from sodium feldspar using rhamnolipid biosurfactant**
AŞCI Y., AÇIKEL U., SAĞ AÇIKEL Y.
Environmental Technology, vol.33, pp.1857-1868, 2012 (SCI-Expanded)
- XVI. **The effects of the composition of growth medium and fermentation conditions on the production of lipase by R delemar**
AÇIKEL U., ERSAN M., SAĞ AÇIKEL Y.
Turkish Journal Of Biology, vol.35, pp.35-44, 2011 (SCI-Expanded)
- XVII. **Investigation of sorption desorption equilibria of heavy metal ions on from quartz using rhamnolipid biosurfactant**
AŞCI Y., NURBAŞ M., SAĞ AÇIKEL Y.
Journal Of Environmental Management, vol.91, pp.724-731, 2010 (SCI-Expanded)
- XVIII. **Optimization of critical medium components using response surface methodology for lipase**

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AÇIKEL U., ERSAN M., SAĞ AÇIKEL Y.

Food And Bioproducts Processing, vol.88, pp.31-39, 2010 (SCI-Expanded)

- XIX. **Removal of zinc ions from a soil component Na-feldspar by a rhamnolipid biosurfactant**
Asci Y., Nurbas M., Acikel Y. S.
DESALINATION, vol.223, pp.361-365, 2008 (SCI-Expanded)
- XX. **A comparative study for the sorption of Cd II by K feldspar and sepiolite as soil components and the recovery of Cd II using rhamnolipid biosurfactant**
AŞCI Y., NURBAŞ M., SAĞ AÇIKEL Y.
Journal Of Environmental Management, vol.88, pp.383-392, 2008 (SCI-Expanded)
- XXI. **A comparative study for the sorption of Cd II by soils with different clay contents and minerology and the recovery of Cd II using rhamnolipid biosurfactant**
AŞCI Y., NURBAŞ M., SAĞ AÇIKEL Y.
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- XXII. **Sorption of Cd II onto kaolin as a soil component and desorption of Cd II from kaolin using rhamnolipid biosurfactant**
AŞCI Y., NURBAŞ M., SAĞ AÇIKEL Y.
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- XXIII. **Application of multicomponent adsorption models to the biosorption of Cr VI Cu II and Cd II ions on Rhizopus arrhizus from ternary metal mixtures**
SAĞ AÇIKEL Y., AKÇAEL B., KUTSAL T.
Chemical Engineering Communications, vol.190, pp.797-812, 2003 (SCI-Expanded)
- XXIV. **Biosorption of Pb II and Cu II by activated sludge in batch and continuous flow stirred reactors**
SAĞ AÇIKEL Y., TATAR B., KUTSAL T.
Bioresource Technology, vol.87, pp.27-33, 2003 (SCI-Expanded)
- XXV. **Kinetic studies on sorption of Cr(VI) and Cu(II) ions by chitin, chitosan and Rhizopus arrhizus**
Sağ Y., AKTAY Y.
Biochemical Engineering Journal, vol.12, no.2, pp.143-153, 2002 (SCI-Expanded)
- XXVI. **A comparative study for the sorption of Cu II ions by Chitin and Chitosan application of equilibrium and mass transfer models**
SAĞ AÇIKEL Y., AKTAY Y.
Separation Science And Technology, vol.37, pp.2801-2822, 2002 (SCI-Expanded)
- XXVII. **Ternary biosorption equilibria of chromium VI copper II and cadmium II on Rhizopus arrhizus**
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- XXVIII. **Evaluation interpretation and representation of three metal biosorption equilibria using a fungal biosorbent**
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- XXIX. **Recent trends in the biosorption of heavy metals A review**
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- XXX. **Use of a mathematical model for prediction of the performance of the simultaneous biosorption of Cr VI and Fe III on R arrhizus in a semibatch reactor**
SAĞ AÇIKEL Y., YALÇUK A., KUTSAL T.
Hydrometallurgy, vol.59, pp.77-87, 2001 (SCI-Expanded)
- XXXI. **Biosorption of heavy metals by fungal biomass and modeling of fungal biosorption a review**
SAĞ AÇIKEL Y.
Separation And Purification Reviews, vol.30, pp.1-48, 2001 (SCI-Expanded)
- XXXII. **Application of equilibrium and mass transfer models to dynamic removal of Cr VI ions by Chitin in packed column reactor**

- SAĞ AÇIKEL Y., AKTAY Y.
Process Biochemistry, vol.36, pp.1187-1197, 2001 (SCI-Expanded)
- XXXIII. **Mass transfer and equilibrium studies for the sorption of chromium ions onto chitin**
SAĞ AÇIKEL Y., AKTAY Y.
Process Biochemistry, vol.36, pp.157-173, 2000 (SCI-Expanded)
- XXXIV. **Mono and multi component biosorption of heavy metal ions on Rhizopus arrhizus in a CFST**
SAĞ AÇIKEL Y., YALÇUK A., KUTSAL T.
Process Biochemistry, vol.35, pp.787-799, 2000 (SCI-Expanded)
- XXXV. **Determination of the biosorption activation energies of heavy metal ions on Zoogloea ramigera and Rhizopus arrhizus**
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Process Biochemistry, vol.35, pp.801-807, 2000 (SCI-Expanded)
- XXXVI. **Lead copper and zinc biosorption from bicomponent systems modelled by empirical Freundlich isotherm**
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Applied Microbiology And Biotechnology, vol.53, pp.338-341, 2000 (SCI-Expanded)
- XXXVII. **Equilibrium parameters for the single and multicomponent biosorption of Cr VI and Fe III ions on R arrhizus in a packed column**
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Hydrometallurgy, vol.55, pp.165-179, 2000 (SCI-Expanded)
- XXXVIII. **Determination of the biosorption heats of heavy metal ions on Zoogloea ramigera and Rhizopus arrhizus**
SAĞ AÇIKEL Y., KUTSAL T.
Biochemical Engineering Journal, vol.6, pp.145-151, 2000 (SCI-Expanded)
- XXXIX. **Biosorption of lead II nickel II and copper II on Rhizopus arrhizus from Binary and Ternary Metal Mixtures**
SAĞ AÇIKEL Y., KAYA A., KUTSAL T.
Separation Science And Technology, vol.35, pp.2601-2617, 2000 (SCI-Expanded)
- XL. **Simultaneous biosorption of Cr VI and Cu II on R arrhizus in packed column reactor Application of the competitive Freundlich model**
SAĞ AÇIKEL Y., ATAÇOĞLU I., KUTSAL T.
Separation Science And Technology, vol.24, pp.3155-3171, 1999 (SCI-Expanded)
- XLI. **The simultaneous biosorption of Cr VI Fe III and Cu II on Rhizopus arrhizus**
SAĞ AÇIKEL Y., KUTSAL T.
Process Biochemistry, vol.33, pp.571-579, 1998 (SCI-Expanded)
- XLII. **The simultaneous biosorption of Cu II and Zn on Rhizopus arrhizus application of the adsorption models**
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- XLIII. **A comparative study for the simultaneous biosorption of Cr VI and Fe III on C vulgaris and R arrhizus application of the competitive adsorption models**
SAĞ AÇIKEL Y., AÇIKEL Ü., AKSU Z., KUTSAL T.
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Process Biochemistry, vol.32, pp.591-597, 1997 (SCI-Expanded)
- XLV. **The adsorption of copper II by Z ramigera immobilized on Ca alginate in packed bed columns a dynamic approach by stimulus response technique and evaluation of adsorption data by moment analysis**
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- XLVI. **The selective biosorption of chromium VI and copper II ions from binary metal mixtures by R arrhizus**
SAĞ AÇIKEL Y., KUTSAL T.
Process Biochemistry, vol.31, pp.561, 1996 (SCI-Expanded)
- XLVII. **Fully competitive biosorption of chromium VI and iron III ions from binary metal mixtures by R arrhizus Use of the competitive Langmuir model**
SAĞ AÇIKEL Y., KUTSAL T.
Process Biochemistry, vol.31, pp.573-585, 1996 (SCI-Expanded)
- XLVIII. **Biosorption of heavy metals by Zoogloea ramigera: Use of adsorption isotherms and a comparison of biosorption characteristics**
Sag Y., Kutsal T.
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- XLIX. **Comparison of Ca alginate and immobilized Z ramigera as sorbents for copper II removal**
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- L. **Copper II and nickel II adsorption by R arrhizus in batch stirred reactors in series**
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Chemical Engineering Journal, vol.58, pp.265-273, 1995 (SCI-Expanded)
- LI. **A comparative study of the biosorption of lead II ions to Z ramigera and R arrhizus**
SAĞ AÇIKEL Y., ÖZER D., KUTSAL T.
Process Biochemistry, vol.30, pp.169-174, 1995 (SCI-Expanded)
- LII. **A comparative study of various biosorbents for removal of chromium(VI) ions from industrial waste waters**
NOURBAKSH M., Sağ Y., ÖZER D., AKSU Z., Kutsal T., ÇAĞLAR A.
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- LIII. **The biosorption of copper II by C vulgaris and Z ramigera**
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- LIV. **A comparative study of the adsorption of chromium VI ions to C vulgaris and Z ramigera**
AKSU Z., SAĞ AÇIKEL Y., KUTSAL T.
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- LV. **THE USE OF ZOOGLOEA-RAMIGERA IN WASTE-WATER TREATMENT CONTAINING CR(VI) AND CD(II) IONS**
SAG Y., KUTSAL T.
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- LVI. **Application of adsorption isotherms to chromium adsorption on Z ramigera**
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- I. **ZnO-Kitosan Kompoziti ile Ağır Metal Giderimi**
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- II. **Investigation of tetracycline removal from aqueous solutions using halloysite/chitosan nanocomposites and halloysite nanotubes/alginate hydrogel beads**
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- III. **Chromium (VI) Removal By A Novel Magnetic Halloysite-Chitosan Nanocomposite From Aqueous**

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IV. **Synthesis of Magnetic Halloysite Nanotube-Alginate Hybrid Beads: Use in the Removal of Methylene Blue from Aqueous Media**

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V. **Investigation of Acid Orange 74 Dye Adsorption with Anaerob Activated Sludge**

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VI. **Comparative heavy metal adsorption by Ca-alginate and immobilized microorganism systems in packed bed columns Dolgulu kolon reaktörde Ca-aljinat ve tutuklanmış mikroorganizma sistemleriyle karsılaştırmalı ağır metal adsorbsiyonu**

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III. **Chapter 8**

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I. **Controlled Delivery of Ciprofloxacin from Halloysite Nanotubes**

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- VIII. **Chromium(VI) removal by a novel magnetic halloysite-chitosan nanocomposite from aqueous solutions**
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- IX. **Investigation of Biosorption Kinetics and Equilibrium of Zinc by Chitin and Chitosan**
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Supported Projects

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SAĞ AÇIKEL Y., Project Supported by Higher Education Institutions, Tekli ve ikili karışımlarından ağır metal iyonlarının R.delemar'a biyobirikiminin incelenmesi, 2010 - Continues

SAĞ AÇIKEL Y., Project Supported by Higher Education Institutions, Kitin ve Kitosan Üzerine Kristal Viyole ve Bakırın Simultane Adsorpsiyonu Üzerine Antagonistik ve Sinerjistik Etkileşimlerin Araştırılması, 2017 - 2018

SAĞ AÇIKEL Y., Project Supported by Higher Education Institutions, Kitin ve kitosan üzerine metil kırmızısı boyar maddesi adsorpsiyonunun incelenmesi, 2017 - 2018

SAĞ AÇIKEL Y., Türkes E., Project Supported by Higher Education Institutions, Yeni Bir Manyetik Halloysit-Kitosan Nanokompozit ile Sulu Çözeltilerden Cr(VI) Uzaklaştırılması, 2017 - 2017

SAĞ AÇIKEL Y., Project Supported by Higher Education Institutions, Eş zamanlı bakır biyobirikimi, melaslı ortamda Rhizopus delemarın üremesi ve lipaz üretimi RSM kullanılarak çevresel koşulların optimizasyonu, 2016 - 2017

SAĞ AÇIKEL Y., Project Supported by Higher Education Institutions, Kitin ve kitosan üzerine çinko biyosorpsiyonu kinetiği ve dengesinin araştırılması, 2016 - 2017

SAĞ AÇIKEL Y., Aşkar Ö. C., Raeiatbin P., Project Supported by Higher Education Institutions, Halloysit-Aljinat Nanojellerin ve Halloysit-Kitosan Nanopartiküllerin Karakterizasyonu, Fizikokimyasal ve Termal Özelliklerinin Belirlenmesi, 2015 - 2017

SAĞ AÇIKEL Y., Project Supported by Higher Education Institutions, Kitosan ve Halloysit bazlı nanopartiküller kullanılarak adsorpsiyon yoluyla sulu ortamlardan antibiyotik giderimi, 2014 - 2017

SAĞ AÇIKEL Y., Raeiatbin P., Project Supported by Higher Education Institutions, Tetrasiklin Yüklü Manyetik Halloysit Nanopartiküllerin Nano İlaç Taşıyıcılar Olarak Kullanılması, 2016 - 2016

SAĞ AÇIKEL Y., Project Supported by Higher Education Institutions, Atıksulardan metil kırmızısı, katyonik boya, asid mavisi 113, anyonik boyanın kitin ve kitosan kullanılarak uzaklaştırılması: Bakır iyonlarının etkisi, 2016 - 2016

Sağ Açikel Y., Project Supported by Higher Education Institutions, Kesikli karıştırmalı reaktörlerde Rhizopus delemar' la lipaz üretiminin işletim parametrelerinin optimizasyonu, 2007 - 2010

Sağ Açikel Y., TUBITAK Project, Rhizopus delemar ile lipaz üretimi, 2004 - 2006

Activities in Scientific Journals

CUMHURİYET SCIENCE JOURNAL, Publication Committee Member, 2016 - Continues

Metrics

Publication: 85

Citation (WoS): 2445

Citation (Scopus): 2746

H-Index (WoS): 26

H-Index (Scopus): 28

Congress and Symposium Activities

The 5th International Symposium on Pharmaceutical and Biomedical Sciences, Working Group, Nevşehir, Turkey, 2018

Awards

Sağ Açıkel Y., Hacettepe Üniversitesi Fen ve Mühendislik Alanında Bilim Ödülü, Hacettepe Üniversitesi, July 2014

Sağ Açıkel Y., Hacettepe Üniversitesi Fen ve Mühendislik Alanında Teşvik Ödülü, Hacettepe Üniversitesi, May 1996

Sağ Açıkel Y., İhsan Doğramacı Üstün Başarı Ödülü, Hacettepe Üniversitesi, October 1985

Non Academic Experience

HACETTEPE ÜNİVERSİTESİ

HACETTEPE ÜNİVERSİTESİ

HACETTEPE ÜNİVERSİTESİ