

**ÖZGEÇMİŞ**  
**Doç.**  
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**EĞİTİM BİLGİLERİ**

Ülke	Üniversite	Fakülte/Enstitü	Öğrenim Alanı	Derece	Mezuniyet Yılı
Türkiye	Selçuk Üniversitesi	Fen Fakültesi	KİMYA	Doktora	2013
Türkiye	Afyon Kocatepe Üniversitesi	AFYON FEN-EDEBİYAT FAKÜLTESİ	KİMYA	Yüksek Lisans	2008
Türkiye	Atatürk Üniversitesi	AĞRI EĞİTİM FAKÜLTESİ	fen bilgisi	Lisans	2005

**AKADEMİK/MESLEKTE DENEYİM**

Kurum/Kuruluş	Ülke	Şehir	Bölüm/Birim	Görev Türü	Görev Dönemi
Giresun Üniversitesi	Türkiye	Giresun	Muhendislik Fakultesi	Yrd. Doç. Dr.	2015-
Giresun Üniversitesi	Türkiye	Giresun	Mühendislik Fakültesi	Yrd. Doç. Dr.	2015-2015
Giresun Üniversitesi	Türkiye	Giresun	Muhendislik Fakultesi	Yrd. Doç. Dr.	2015-2015

**UZMANLIK ALANLARI**

Uzmanlık Alanları
Organik Spektroskopı , Aromatik Bileşikler Kimyası
Kaliksaren, organik sentez, ayırma ve saflaştırma, karakterizasyon, supramoleküler kimya, ektraksiyon, arsenat, dikromat, uranil katyonu, magnetik nanopartikül, immobilizasyon, flavin.

**PROJE DENEYİMİ**

Proje Adı	Kurum	Bütçe	Tarih	Görev	Proje Türü
Brönsted Asit Katalizörü Olabilecek Kaliks[n]arenbazlı Süperparamanyetik Nanopartiküllerin Sentezi, Karakterizasyonu ve Bazı Reaksiyonlarda Katalizör	Selçuk Üniversitesi	12000	01.07.2011-25.09.2013	Araştırmacı/Uzman	Ulusal

Olarak Kullanılması					
Yeni Kaliksaren Türevlerinin Sentezi ve Toksik Bir Metal Olan Arseninin Sulardan Giderilmesine Analitik Metod ve Tekniklerin Geliştirilmesinde Kullanılması		92650	15.06.2008- 15.06.2010	Bursiyer	Uluslararası
Synthesis of Novel Calixarene Derivatives and the Development of Analytical Methods/Techniques for the Removal of Toxic Metals Especially Arsenic from Water	TÜBİTAK Başkanlık	96000	15.03.2008- 01.07.2010	Bursiyer	Uluslararası

### DİĞER AKADEMİK FAALİYETLER

<b>Son Bir Yılda Uluslararası İndekslere Kayıtlı Makale/Derleme İçin Yapılan Danışmanlık Sayısı</b>	4
<b>Son Bir Yılda Projeler İçin Yapılan Danışmanlık Sayısı</b>	
<b>Yayınlara Alınan Toplam Atıf Sayısı</b>	258
<b>Danışmanlık Yapılan Öğrenci Sayısı</b>	
	<b>Tamamlanan</b>
	<b>Devam Eden</b>
	<b>Yüksek Lisans</b>
	<b>Doktora</b>
	<b>Uzmanlık</b>
<b>Diğer Faaliyetler (Eser/görev/faaliyet/sorumluluk/olay/ üyelik vb.)</b>	

### ÖDÜLLER

Ödülün Adı	Aldığı Kuruluş	Yıl

### YAYINLARI

#### SCI, SSCI, AHCI indekslerine giren dergilerde yayınlanan makaleler

Sayin, Serkan; Dogan, Vildan, Synthesis and properties of novel magnetic nanoparticles grafted with nitropyridine-substituted calix[4]arene derivative as Cr <sup>6+</sup> extractant, 2015, TURKISH JOURNAL OF CHEMISTRY
Sayin, Serkan; Azak, Hacer; Yildiz,Huseyin B.; Camurlu, Pinar; Akkus,Gulderen U.; Toppare, Levent; Ersoz, Mustafa , Calixarene assembly with enhanced photocurrents using P(SNS-NH <sub>2</sub> )/CdS nanoparticle structure modified Au electrode systems, 2015, PHYSICAL CHEMISTRY CHEMICAL PHYSICS

Sayın, Serkan, Calix[4]arene derivatives as dopamine hosts in electrochemical sensors, 2015, SENSORS AND ACTUATORS B-CHEMICAL

Sayın, Serkan, Effect of Fe doping on the CO gas sensing of functional calixarenemolecules measured with quartz crystal microbalance technique, 2015, SENSORS AND ACTUATORS B-CHEMICAL

Gokoglan, Tugba Ceren; Soylemez, Saniye; Kesik, Melis; Unay, Hande; Sayin, Serkan; Yildiz, Huseyin Bekir; Cirpan, Ali; Toppore, Levent , A novel architecture based on a conducting polymer and calixarene derivative: its synthesis and biosensor construction, 2015, RSC Advances

Akoz, Enise; Sayin, Serkan; Kaplan, Selcuk; Yilmaz, Mustafa, Improvement of catalytic activity of lipase in the presence of calix[4]arene valeric acid or hydrazine derivative, 2015, BIOPROCESS AND BIOSYSTEMS ENGINEERING

Erturun, H. Elif Kormali; Ozel, Ayca Demirel; Sayin, Serkan; Yilmaz, Mustafa; Kilic, Esma, Development of a pH sensing membrane electrode based on a new calix[4]arene derivative, 2015, TALANTA

B. Sonmez, Serkan Sayin, E.E. Yalcinkaya, D. Ag, H.B. Yildiz, D.O. Demirkol, S. Timur, Calixarene modified montmorillonite: A novel surface design for biosensing applications, 2014, RSC Advances

Serkan Sayin, M. Yilmaz, Brønsted Acid-Type Magnetic Nano-Fe<sub>3</sub>O<sub>4</sub>-Adorned Calix[n]arene Sulfonic Acids: Synthesis and Application in the Nucleophilic Substitution of Alcohols, 2014, TETRAHEDRON

Serkan Sayin, E. Akoz, M. Yilmaz, Enhanced catalytic and enantioselective resolution of rasemic Naproxen methyl ester by encapsulated lipase with calix[8]arene valeric acid-adorned magnetite nanoparticles, 2014, ORGANIC & BIOMOLECULAR CHEMISTRY

Serkan Sayin, C. Ozbek, S. Okur, M. Yilmaz, Preparation of the ferrocene-substituted 1,3-distal p-tert-butylcalix[4]arene based QCM sensors array and utilization of its gas-sensing affinities, 2014, JOURNAL OF ORGANOMETALLIC CHEMISTRY

D.O. Demirkol, H.B. Yildiz, Serkan Sayin, M. Yilmaz, Enzyme immobilization in biosensor constructions:self-assembled monolayers of calixarenes containing thiols, 2014, RSC Advances

Sayin, Serkan; Eymur, Serkan; Yilmaz, Mustafa , Anion Extraction Properties of a New ?Proton-Switchable? Terpyridin-Conjugated Calix[4]arene, 2014, INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH

H.B. Yildiz, M. Kamaci, M. Karaman, L. Toppore, Serkan Sayin, Photoelectrochemical Biosensing Approach for Alcohol Determination by ?Wiring? of Alcohol Oxidase Photonically with P(SNS-NH<sub>2</sub>)/AOx/CNT/[Ru(bpy)<sub>3</sub>]<sup>2+</sup>Modified Electrodes, 2014, Journal of Macromolecular Science Part A-Pure and Applied Chemistry

Sayin, Serkan; Yilmaz, Mustafa , The synthesis of new calix[n]arene quaternary ammonium salts and investigation of their catalytic affinities for three component Mannich-type reactions in water, 2013, RSC ADVANCES

Ozyilmaz, Elif; Sayin, Serkan; Arslan, Mustafa; Yilmaz, Mustafa , Improving catalytic hydrolysis reaction efficiency ofsol?gel-encapsulated Candida rugosa lipase with magnetic-cyclodextrin nanoparticles, 2013, COLLOIDS AND SURFACES B-BIOINTERFACES

Yildiz, H. Bekir; Demirkol, D. Odaci; Sayin, Serkan; Yilmaz, Mustafa; Koysuren, Ozcan; Kamaci, Musa, New Amperometric Cholesterol Biosensors Using Poly(ethyleneoxide) Conducting Polymers, 2013, JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY

Arslan, Mustafa; Sayin, Serkan; Yilmaz, Mustafa, Enantioselective sorption of some chiral

carboxylic acids by various cyclodextrin-grafted iron oxide magnetic nanoparticles, 2013,  
TETRAHEDRON-ASYMMETRY

Ozyilmaz, Elif ; Sayın, Serkan, Preparation of New Calix[4]arene-Immobilized Biopolymers for Enhancing Catalytic Properties of Candida rugosa Lipase by Sol?Gel Encapsulation, 2013, APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY

Ozyilmaz, E.; Sayin, Serkan, A magnetically separable biocatalyst for resolution of racemic naproxen methyl ester, 2013, BIOPROCESS AND BIOSYSTEMS ENGINEERING

Arslan, Mustafa; Sayin, Serkan; Yilmaz, Mustafa, Removal of Carcinogenic Azo Dyes from Water by New Cyclodextrin-Immobilized Iron Oxide Magnetic Nanoparticles, 2013, WATER AIR AND SOIL POLLUTION

Sayın, Serkan; Ozcan, Fatih; Yilmaz, Mustafa , Two novel calixarene functionalized iron oxide magnetite nanoparticles as a platform for magnetic separation in the liquid?liquid/solid?liquid extraction of oxyanions, 2013, MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS

Sayın, Serkan; Gubbuk, I. Hilal; Yilmaz, Mustafa , Preparation of calix[4]arene-based sporopollenin and examinationof its dichromate sorption ability, 2012, JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY

Mermer, Ö.; Okur, Salih; Sümer, F.; Özbek, C.; Yılmaz, M.; Sayın, Serkan, Gas Sensing Properties of Carbon Nanotubes Modified with Calixarene MoleculesMeasured by QCM Techniques, 2012, ACTA PHYSICA POLONICA A

Sayın, Serkan; Yilmaz, Mustafa , Preparation and uranyl ion extraction studies of calix[4]arene-based magnetite nanoparticles, 2011, DESALINATION

Sayın, Serkan; Yilmaz, Mustafa; Tavasli, Mustafa , Syntheses of two diamine substituted 1,3-distal calix[4]arene-based magnetitenanoparticles for extraction of dichromate, arsenate and uranyl ions, 2011, TETRAHEDRON

Sayın, Serkan; Ozcan, Fatih; Yilmaz, Mustafa , Preparation and Application of Calix[4]arene Derivatives Bearing Pyridinium Units-Grafted Magnetite Nanoparticles for Removal of Dichromate and Arsenate Anions, 2011, JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY

Sayın, Serkan; Yilmaz, Elif; Yilmaz, Mustafa , Improvement of catalytic properties of Candida Rugosa lipase by sol?gelencapsulation in the presence of magnetic calix[4]arene nanoparticles, 2011, ORGANIC & BIOMOLECULAR CHEMISTRY

Serkan Sayin, G. U. Akkus, R. Cibulka, I. Stibor, M. Yilmaz, Synthesis of Flavin-Calix[4]arene conjugate derivatives., 2011, HELVETICA CHIMICA ACTA

Sayın, Serkan; Yilmaz, Mustafa , Synthesis of A New Calixarene Derivative and Its Immobilization Onto Magnetic Nanoparticle Surfaces for Excellent Extractants Toward Cr(VI), As(V), and U(VI), 2011, JOURNAL OF CHEMICAL AND ENGINEERING DATA

Sayın, Serkan, Synthesis of calix[4]arene bearing pyridinium units supported silica gel for sorption of arsenate and dichromate anions., 2010, DESALINATION

Serkan Sayin, F. Ozcan, M. Yilmaz, A. Tor, S. Memon, Y. Cengeloglu, Synthesis of calix[4]arene-grafted magnetite nanoparticles and evaluation of their arsenate as well as dichromate removal efficiency., 2010, CLEAN-SOIL AIR WATER

Serkan Sayin, F. Ozcan, M. Yilmaz, Synthesis and evaluation of chromate and arsenate anions extraction ability of a N-methylglucamine derivative of calix[4]arene immobilized onto magnetic nanoparticles., 2010, JOURNAL OF HAZARDOUS MATERIALS

Serkan Sayin, F. Ozcan, S. Memon, M. Yilmaz, Synthesis and oxoanions (dichromate/arsenate) sorption study of N-methylglucamine derivative of calix[4]arene immobilized onto poly[(phenyl glycidyl ether)-co-formaldehyde, 2009, JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY

R. Cibulka, L. Baxová, H. Dvořáková, F. Hampl, P. Ménová, V. Mojr, B. Plancq, Serkan Sayin, Catalytic effect of alloxazinium and isoalloxazinium salts on oxidation of sulfides with hydrogen peroxide in micellar media., 2009, COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS

### **Diğer dergilerde yayınlanan makaleler**

Kurt, Mustafa; Okur, Salih; Sayin, Serkan; Yilmaz, Mustafa, Synthesis, FT-IR, FT-Raman, dispersive Raman and NMR spectroscopic study of a host molecule which potential applications in sensor devices, 2012, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy

### **Hakemli konferans/sempozyumların bildiri kitaplarında yer alan yayınlar**

Catalytic affinities of magnetic nano-Fe<sub>3</sub>O<sub>4</sub>-adorned calix[n]arene derivatives in water, 7th International Conference on Green and Sustainable Chemistry  
4th JACI-GSC Symposium PROGRAM, 2015

Enzyme Immobilization in Biosensor Constructions: Self-Assembled Monolayers of Calixarenes Containing Thiols, XXIII International Symposium on Bioelectrochemistry and Bioenergetics of the Bioelectrochemical Society, 2015

Tiyol Fonksiyonlu Kaliksarenlerin Biyosensör Olarak Enzim İmmobilizasyonunda Kullanılması, 5. Fiziksel Kimya Kongresi, 2015

Kaliksaren Modifiye Montmorillonit: Biyosensör Uygulamaları İçin Yeni Bir Dizayn, 5. Fiziksel Kimya Kongresi, 2015

P(SNS-NH<sub>2</sub>)/AOx/CNT/[Ru(bpy)<sub>3</sub>]<sup>+2</sup> Yapılarıyla Modifiye Edilmiş Elektrotlar Kullanılarak Fotoelektrokimyasal Alkol Biyosensörlerin Yapımı, 5. Fiziksel Kimya Kongresi, 2015

Poli(etilenoksit) İletken Polimerlerin Yeni Amperometrik Kolesterol Biyosensörler Olarak Kullanılması, 5. Fiziksel Kimya Kongresi, 2015

Kaliksaren ile Modifiye Edilmiş Yüzeylerin Biyosensör Uygulamalarında Kullanımı, 5. Fiziksel Kimya Kongresi, 2015

Calix[n]arene Derivatives as Regulators of Enzymatic Reactions, 3rd Scientific Meeting, Supramolecular Chemistry in Water (CMST COST Action CM1005), 2013

Calixarene immobilized polysaccharides for the extraction of arsenate/dichromate anions., 3rd PAK-TURK Conference on Chemical Sciences, 2012

Immobilization of beta-cyclodextrin onto iron oxide nanoparticles and extraction properties towards some chiral carboxylic acids, 3rd PAK-TURK Conference on Chemical Sciences, 2012

Farklı Fonksiyonel Grup Taşıyan β-Siklodekstrin Türevlerinin Sentezi, Manyetik Nanopartiküllere İmmobilizasyonu ve Bazı Karboksilik Asitlerle Ekstraksiyon Çalışmalarında Kullanılması, 25th National Chemistry Congress with international participation, 2011

Synthesis of A New Calixarene Derivative and Its Immobilization onto Magnetic Nanoparticles as Extractants Toward U(VI), 7th Aegean Analytical Chemistry Days, 2010

### **Diğer yayınlar**

MAGNETIC NANOPARTICLESProperties, Synthesis and Applications, Organic Based Magnetic

Nanoparticles-Polymers and Various Calixarene Based Magnetic Nanoparticles, ISBN: 978-1-61942-424-1, 2012

**Düzenleme Tarihi :27/11/2015**