

# Prof. EBRU BİRLİK ÖZKÜTÜK

## Personal Information

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## Education Information

Doctorate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2000 - 2003

Postgraduate, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 1997 - 1999

Undergraduate, Anadolu University, Fen-Edebiyat Fakültesi, Kimya Pr., Turkey 1993 - 1997

## Dissertations

Doctorate, Eser miktardaki metallerin moleküler baskılı polimerler kullanılarak değiştirilmesi ve alev atomik absorpsiyonu ile analizi, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2003

Postgraduate, Kırka tinkalinin özelliklerinin belirlenmesi, Eskisehir Osmangazi University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 1999

## Research Areas

Adsorption Spectroscopy, Atomic and Molecular Spectroscopy, Separation Methods, Bioanalytical Methods, Electromagnetic Methods, Emission Spectroscopy, Food Analysis, gravimetry, Sensors

## Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2015 - Continues

Associate Professor, Eskisehir Osmangazi University, Kimya Bölümü, 2010 - 2015

Assistant Professor, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2008 - 2010

Research Assistant, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1999 - 2008

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Development of potentiometric biosensor for diagnosis of prostate cancer**  
Altunkok N., Unluer O. B., BİRLİK ÖZKÜTÜK E., ERSÖZ A.  
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.263, 2021  
(Journal Indexed in SCI)
- II. **A new potentiometric platform: Antibody cross-linked graphene oxide potentiometric immunosensor for clenbuterol determination**  
BİRLİK ÖZKÜTÜK E., ERSÖZ A., Ugurag D., Yilmaz F., SAY R.  
BIOTECHNOLOGY AND APPLIED BIOCHEMISTRY, 2020 (Journal Indexed in SCI)
- III. **Methacryloyloxycalix[4]arene based ion imprinted polymer as Ag(I) potentiometric sensor**

ŞENER İ., Avci S., Ugurag D., BİRLİK ÖZKÜTÜK E.

INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY, vol.57, no.3, pp.444-448, 2018 (Journal Indexed in SCI)

- IV. **Synergistic thallium and iodine memory-based cryogel traps for removing thallium and iodine ions**  
BİRLİK ÖZKÜTÜK E., Emekli Y., Ugurag D., HÜR D., Ersoz A., SAY R.  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.314, no.3, pp.2229-2236, 2017 (Journal Indexed in SCI)
- V. **Potentiometric sensor fabrication having 2D sarcosine memories and analytical features**  
BİRLİK ÖZKÜTÜK E., EMİR DİLTEMİZ S., Avci S., Ugurag D., Aykanat R. B., Ersoz A., SAY R.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.69, pp.231-235, 2016 (Journal Indexed in SCI)
- VI. **Determination of Clenbuterol by Multiwalled Carbon Nanotube Potentiometric Sensors**  
BİRLİK ÖZKÜTÜK E., Ugurag D., Ersoz A., SAY R.  
ANALYTICAL LETTERS, vol.49, no.6, pp.778-789, 2016 (Journal Indexed in SCI)
- VII. **Biopolymer based ion imprinting cryogel traps for the removal of Tl(I)**  
Cankara S., BİRLİK ÖZKÜTÜK E., Ozturk O., Ersoz A., SAY R.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.51, no.6, pp.901-908, 2016 (Journal Indexed in SCI)
- VIII. **Double-imprinted potentiometric sensors based on ligand exchange for the determination of dimethoate**  
Bektasoglu E., BİRLİK ÖZKÜTÜK E., Ersoz A., SAY R.  
KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.32, no.8, pp.1613-1617, 2015 (Journal Indexed in SCI)
- IX. **Ligand exchange and MIP-based paraoxon memories onto QCM sensor**  
BİRLİK ÖZKÜTÜK E., EMİR DİLTEMİZ S., Ozalp E., UZUN L., Ersoz A.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.119, no.1, pp.351-357, 2015 (Journal Indexed in SCI)
- X. **Nano anti-tumor necrosis factor-alpha based potentiometric sensor for tumor necrosis factor-alpha detection**  
Say R., BİRLİK ÖZKÜTÜK E., ÜNLÜER Ö., Ugurag D., Ersoz A.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.209, pp.864-869, 2015 (Journal Indexed in SCI)
- XI. **Development of New Molecular Imprinted Solid Phase Extraction Material for Dimethoate**  
Bektasoglu E., BİRLİK ÖZKÜTÜK E., Ersoz A., SAY R.  
SPECTROSCOPY LETTERS, vol.47, no.3, pp.168-176, 2014 (Journal Indexed in SCI)
- XII. **Silan based paraoxon memories onto QCM electrodes**  
BİRLİK ÖZKÜTÜK E., EMİR DİLTEMİZ S., Ozalp E., Ersoz A., SAY R.  
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.19, no.6, pp.1788-1792, 2013 (Journal Indexed in SCI)
- XIII. **Paraoxon imprinted biopolymer based QCM sensor**  
BİRLİK ÖZKÜTÜK E., EMİR DİLTEMİZ S., Ozalp E., Gedikbey T., Ersoz A.  
MATERIALS CHEMISTRY AND PHYSICS, vol.139, no.1, pp.107-112, 2013 (Journal Indexed in SCI)
- XIV. **Ligand exchange based paraoxon imprinted QCM sensor**  
BİRLİK ÖZKÜTÜK E., Dilterniz S. E., Ozalp E., SAY R., Ersoz A.  
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.33, no.2, pp.938-942, 2013 (Journal Indexed in SCI)
- XV. **Thiocyanate separation by imprinted polymeric systems**  
BİRLİK ÖZKÜTÜK E., Ozalp E., Ersoz A., Acikkalp E., SAY R.  
MICROCHIMICA ACTA, vol.169, pp.129-135, 2010 (Journal Indexed in SCI)
- XVI. **Preconcentration of phosphate ion onto ion-imprinted polymer**  
BİRLİK ÖZKÜTÜK E., Ersoz A., DENİZLİ A., SAY R.  
JOURNAL OF HAZARDOUS MATERIALS, vol.157, no.1, pp.130-136, 2008 (Journal Indexed in SCI)
- XVII. **Removal of mercury species with dithiocarbamate-anchored polymer/organosmectite composites**  
SAY R., BİRLİK ÖZKÜTÜK E., Erdemgil Z., DENİZLİ A., Ersoz A.

- JOURNAL OF HAZARDOUS MATERIALS, vol.150, no.3, pp.560-564, 2008 (Journal Indexed in SCI)
- XVIII. **Cr(III)-imprinted polymeric beads: Sorption and preconcentration studies**  
Birlik E., Ersoz A., Acikkalp E., Denizli A., Say R.  
JOURNAL OF HAZARDOUS MATERIALS, vol.140, pp.110-116, 2007 (Journal Indexed in SCI)
- XIX. **Preconcentration of copper using double-imprinted polymer via solid phase extraction**  
Birlik E., Ersoz A., Denizli A., Say R.  
ANALYTICA CHIMICA ACTA, vol.565, no.2, pp.145-151, 2006 (Journal Indexed in SCI)
- XX. **Removal of heavy metal ions by dithiocarbamate-anchored polymer/organosmectite composites**  
Say R., Birlik E., Denizli A., Ersoz A.  
APPLIED CLAY SCIENCE, vol.31, pp.298-305, 2006 (Journal Indexed in SCI)
- XXI. **Selective separation of thorium using ion imprinted chitosan-phthalate particles via solid phase extraction**  
Birlik E., Buyuktiryaki S., Ersoz A., Denizli A., Say R.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.41, no.14, pp.3109-3121, 2006 (Journal Indexed in SCI)
- XXII. **Selective preconcentration of thorium in the presence Of UO<sub>2</sub><sup>2+</sup>, Ce<sup>3+</sup> and La<sup>3+</sup> using Th(IV)-imprinted polymer**  
Buyuktiryaki S., Say R., Ersoz A., Birlik E., Denizli A.  
TALANTA, vol.67, no.3, pp.640-645, 2005 (Journal Indexed in SCI)
- XXIII. **Preconcentration of copper on ion-selective imprinted polymer microbeads**  
Say R., Birlik E., Ersoz A., Yilmaz F., Gedikbey T., Denizli A.  
ANALYTICA CHIMICA ACTA, vol.480, no.2, pp.251-258, 2003 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Selective Removal of Cd II Using Double Imprinted Polymer From Synthetic Water**  
BİRLİK ÖZKÜTÜK E.  
Anadolu University of Science and Technology, vol.16, no.1, pp.15-22, 2015 (Other Refereed National Journals)
- II. **Selective Solid-Phase Extraction of Cd(II) Using Double Imprinting Strategy**  
BİRLİK ÖZKÜTÜK E., Özalp E., Isler G., EMİR DİLTEMİZ S., Ersoz A.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.23, no.1, pp.19-26, 2010 (Journal Indexed in ESCI)
- III. **Selective Separation of Thiocyanate Ion By Ion Imprinted Polymer**  
BİRLİK ÖZKÜTÜK E., Özalp E., Atlı Özcan A., EMİR DİLTEMİZ S.  
Hacettepe Journal of Biology and Chemistry, vol.37, no.3, pp.207-215, 2009 (Other Refereed National Journals)
- IV. **Selective Solid Phase Extraction of Cd II Using Double İmprinting Strategy**  
BİRLİK ÖZKÜTÜK E., Özalp E., İşler G.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.23, no.1, pp.19-26, 2009 (Other Refereed National Journals)
- V. **Fe<sup>3+</sup> Imprinted Polymeric Systems**  
BİRLİK ÖZKÜTÜK E., KARABÖRK M.  
HACETTEPE JOURNAL OF BIOLOGY AND CHEMISTRY, vol.35, no.3, pp.195-202, 2007 (Other Refereed National Journals)

## Citations

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h-index (WOS):11