

## Prof. Sezgin BAKIRDERE

### Personal Information

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### International Researcher IDs

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ScopusID: 6506190285

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### Education Information

Doctorate, Middle East Technical University, Faculty Of Arts And Sciences, Kimya, Turkey 2004 - 2009

Postgraduate, Firat University, Fen Edebiyat Fakültesi, Kimya, Turkey 2001 - 2003

Undergraduate, Firat University, Faculty Of Arts And Sciences, Kimya, Turkey 1997 - 2001

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Speciation studies using HPLC-ICP-MS and HPLC-ES-MS, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya / Analitik Kimya, 2009

Postgraduate, Biyolojik ve Çevre Örneklerinde Kurşunun Zenginleştirilerek Atomik Absorpsiyon Spektrofotometresiyle Tayini, Firat Üniversitesi, Fen Edebiyat Fakültesi, Kimya / Analitik Kimya, 2003

### Research Areas

Chemistry, Analytical Chemistry, Adsorption Spectroscopy, Atomic Mass Spectrometry, Atomic and Molecular Spectroscopy, Chromatographic Analysis, Mass Spectroscopy, Natural Sciences

### Academic Titles / Tasks

Professor, Yildiz Technical University, Fen Edebiyat Fakültesi, Kimya, 2017 - Continues

Associate Professor, Yildiz Technical University, Fen Edebiyat Fakültesi, Kimya, 2013 - 2017

Associate Professor, Yildiz Technical University, Faculty Of Education, Matematik Ve Fen Bilimleri Bölümü, 2012 - 2013

Assistant Professor, Yildiz Technical University, Faculty Of Education, Matematik Ve Fen Bilimleri Bölümü, 2012 - 2012

Research Assistant PhD, Zonguldak Bülent Ecevit University, Faculty Of Arts And Sciences, 2010 - 2012

Research Assistant PhD, Middle East Technical University, Fen Edebiyat Fakültesi, Kimya, 2009 - 2010

Research Assistant, Middle East Technical University, Fen Edebiyat Fakültesi, Kimya, 2002 - 2009

## Academic and Administrative Experience

Dean, Yildiz Technical University, Faculty Of Applied Sciences, 2017 - 2021

Manager of Research and Application Center, Yildiz Technical University, 2016 - 2020

Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi Kimya Bölümü, 2014 - 2016

## Supervised Theses

BAKIRDERE S., Alevli Atomik Absorpsiyon Spektrofotometre Cihaz Duyarlılığının Yarıkli Kuartz Tüp (YKT) ile Artırılması ve YKT İç Yüzeyinin Adsorpsiyon Özelliklerinin İncelenmesi, Doctorate, Ç.Büyükpınar(Student), Continues

Bakırdere S., Özdoğan N., Farklı Analitlerin Önderiştirilmesinde Zirkonyum Nanopartiküllerin Kullanılması, Postgraduate, Z.TEKİN(Student), Continues

Bakırdere S., Farklı Pestisit, Hormon ve İlaç Etken Madde Grubu Endokrin Bozucu Maddelerin Önderiştirilmesi Sonrası GC-MS Sisteminde Eser Seviyelerde Tayinleri, Doctorate, E.Seda(Student), Continues

Bakırdere S., Balık Yağı Örneklerinde Bulunan Organik Analitlerin Ters Faz Dağıtıcı Sıvı-Sıvı Mikroekstraksiyon Stratejisi Kullanılarak Eser Seviyelerde Tayinleri, Postgraduate, G.ÖZZEYBEK(Student), Continues

Bakırdere S., Uçucu Bileşen Oluşturma Alevli Atomik Absorpsiyon Sistemine Antimon Tayinine Yönelik Analitik Yöntem Geliştirme, Postgraduate, E.YAZICI(Student), Continues

Bakırdere S., Türleme Çalışmalarında Tayin Limitlerinin Düşürülmesine Yönelik Analitik Yöntemlerin Geliştirilmesi, Postgraduate, S.BODUR(Student), Continues

Bakırdere S., Poli Aromatik Hidrokarbonların Tayininde Yeni Analitik Stratejiler, Postgraduate, M.Selin(Student), Continues

Bakırdere S., Nanokompozitler kullanılarak seçili mikrokirleticilerin çevre örneklerinde eser seviyelerde tayinleri, Postgraduate, B.TIŞLI(Student), Continues

Bakırdere S., Combination of Microextraction Strategies and T-Shaped Quartz Tube to Lower the Detection Limits, Doctorate, E.AKKAYA(Student), Continues

Bakırdere S., Bakırdere E. G., New solid and liquid phase microextraction strategies for trace analyte determinations in atomic spectroscopy, Doctorate, B.Tuğba(Student), Continues

Bakırdere S., Vücut sıvılarında bulunan farklı hastalık belirteçlerinin tayinlerine yönelik analitik stratejilerin geliştirilmesi, Doctorate, U.BALÇIK(Student), Continues

Bakırdere S., Moleküler Baskılı Polimerlerin Analitik Uygulamaları, Postgraduate, N.Aylin(Student), Continues

Keyf S., Bakırdere S., Organik/İnorganik Kirleticilerin Ultraeser Seviyelerde Tayinlerine Yönelik Yeni Analitik Stratejilerin Geliştirilmesi, Doctorate, T.UNUTKAN(Student), Continues

Engin G., Bakırdere S., Simultaneous Determination of Nervous System Drugs and Their Treatment From Wastewater by Novel Adsorption Technologies, Doctorate, G.DALGIÇ(Student), Continues

Bakırdere S., Accurate and sensitive determination of organic and inorganic contaminants in body fluids and environmental samples using novel analytical strategies, Doctorate, S.ERARPAT(Student), Continues

Bakırdere S., Acı biber örneklerinde kapsaisin tayinine yönelik özgün mikroekstraksiyon yöntemleri geliştirilmesi, Postgraduate, İ.ŞAHİN(Student), Continues

Bakırdere S., Eser Seviyelerde Melamin Tayinine Yönelik Analitik Yöntem Geliştirilmesi, Postgraduate, E.MALTEPE(Student), Continues

Bakırdere S., Can S., Selenyum, krom türlemesi ve ceviz köken tayinine yönelik yüksek doğruluk ve duyarlılıkta analitik yöntemler geliştirilmesi, Doctorate, B.Arı(Student), Continues

Bakırdere S., Farklı Matrikslerde Bulunan Endokrin Bozucu Maddelerin Önderiştirme Sonrası Eser Seviyelerde Tayinleri, Doctorate, D.Selali(Student), Continues

Bakırdere S., Organik/İnorganik Analitlerin Gıda Örneklerinde Eser Seviyelerde Tayinlerine Yönelik Özgün Analitik Stratejilerin Geliştirilmesi, Postgraduate, T.BORAHAN(Student), Continues

Özbek B., Bakırdere S., Determination of Trace Analytes in Biological Fluids by Q TOF LC/MS Using Isotope Dilution Method, Doctorate, E.ÖZTÜRKER(Student), 2020

Bakırdere S., Development of analytical strategies for accurate and precise determination of endocrine disruptive

chemicals in biological and environmental matrices, Postgraduate, S.ERARPAT(Student), 2019

Bakirdere S., Pestisit ve Endokrin Bozucu Maddelerin Düşük Seviyelerde Eşzamanlı Tayinleri ve Biyoerişebilirlik Seviyelerinin Belirlenmesi, Postgraduate, U.Balçık(Student), 2019

Özdoğan N., Bakirdere S., Farklı pestisitlerin akıllı ve ikili dağıtıcı sıvı sıvı mikroekstraksiyon stratejileri ile yüksek doğruluk ve duyarlılıkla eşzamanlı tayinleri, Postgraduate, F.KAPUKIRAN(Student), 2019

Bakirdere S., Uçucu Bileşen Oluşturma -Atomik Absorpsiyon Spektrofotometre Sisteminde Analitlerin Düşük Seviyelerde Tayinleri, Postgraduate, B.Tuğba(Student), 2018

Bakirdere S., Determination of trace and ultratrace cadmium in different matrices using microextraction strategies and analysis methods, Postgraduate, E.AKKAYA(Student), 2018

BAKIRDERE S., Eser Analiz ve Türleme Çalışmalarında Kromatografik Yöntemler, Postgraduate, S.Sel(Student), 2017

BAKIRDERE S., Farklı C/N Oranlarında Çalıştırılan Membran Biyoreaktörlerde Mikrobiyal Tür Analizi Değerlendirilmesi, Doctorate, N.Bakaraki(Student), 2017

BAKIRDERE S., İlaç Aktif Maddelerinin Kararlılık Seviyelerinin HPLC Cihaz İle Tayinleri, Postgraduate, A.Kemal(Student), 2016

İçelli O., Bakirdere S., Ses dalgaları, manyetik alan ve elektrik alan etkisinde kurutulan gıdalardamikotoksinlerin tayini ve fiziksel/kimyasal parametrelerin incelenmesi, Doctorate, E.Nuroğlu(Student), 2016

Keyf S., Bakirdere S., Amoksisilinin Farklı Matrikslerde Yüksek Basınçlı Sıvı Kromatografi Sistemi İle Düşük Seviyelerde Tayini, Postgraduate, T.UNUTKAN(Student), 2016

BAKIRDERE S., Sertralinin GC-MS Sisteminde Düşük Seviyelerde Tayinine Yönelik Analitik Yöntem Geliştirilmesi ve Yapay Mide Ortamındaki Kararlılığının Tespit Edilmesi, Postgraduate, E.Seda(Student), 2016

BAKIRDERE S., Valsartanın Farklı Matrikslerde Tayinine Yönelik Analitik Yöntem Geliştirilmesi ve Kararlılık Çalışması, Postgraduate, H.Serbest(Student), 2016

BAKIRDERE S., Türk Makam Müziğinin Günümüze Aktarımında Gramofon Kayıtlarının Rolü, Disklerin Kimyasal ve Fiziksel Analizleri ve Tayin Sonuçlarının Ses Kalitesiyle İlişkisi, Postgraduate, D.Seltuğ(Student), 2016

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A spray assisted droplet formation-liquid phase microextraction procedure for the quantification of trace levels of manganese in French Lavender Tea Infusions with flame atomic absorption spectrometry**  
Atakol M., Yıldırım V., ATAKOL A., Akbiyık H., Zaman B. T., ATAKOL O., BAKIRDERE S.  
Journal of Food Composition and Analysis, vol.142, 2025 (SCI-Expanded)
- II. **Trace determination of cobalt in heather leaf tea by matrix matching calibration assisted flame atomic absorption spectrometry following a dispersive liquid-liquid microextraction utilizing a Schiff base ligand**  
Atakol A., ZEYDANLI D., Göver T., Atakol M., Serbest H., Karakebab K., Büyük M. A., ATAKOL O., BAKIRDERE S.  
Measurement: Journal of the International Measurement Confederation, vol.248, 2025 (SCI-Expanded)
- III. **Conductive poly(bromophenol red) film coated graphene oxide-ZnO nanocomposite modified electrode for enzymeless voltammetric determination of ethyl-paraoxon**  
KARAKAYA S., Demir C., Zaman B. T., BAKIRDERE S., DİLGİN Y.  
Journal of Food Composition and Analysis, vol.141, 2025 (SCI-Expanded)
- IV. **Trace copper determination in mate tea and tap water using FAAS and spray-assisted liquid phase microextraction**  
Karakebab K., Serbest H., TURAK F., BAKIRDERE S.  
Journal of Food Composition and Analysis, vol.140, 2025 (SCI-Expanded)
- V. **Development of a NiMn<sub>2</sub>O<sub>4</sub>@Fe<sub>3</sub>O<sub>4</sub> nanocomposite-based dispersive solid phase extraction for the accurate and sensitive determination of lead in mint tea samples prior to flame atomic absorption spectrometer measurement**  
Zeytinci N. K., Zaman B. T., DALGIÇ BOZYİĞİT G., BAKIRDERE S.  
Journal of Food Composition and Analysis, vol.140, 2025 (SCI-Expanded)

- VI. **Trace element determination using mass spectrometry coupled detection methods**  
Chormey D. S., Er E. Ö., ERARPAT BODUR S., Zaman B. T., Bodur S., Kustanto T. B., Kayın İ., BAKIRDERE S.  
Trends in Environmental Analytical Chemistry, vol.45, 2025 (SCI-Expanded)
- VII. **A quick and effective approach for removing Ni(II) from paper mill wastewater with magnesium ferrite nanoadsorbent: method development, reusability, isotherm models, and adsorption kinetics**  
Bahçivan A., Atakol A., Zaman B. T., DALGIÇ BOZYİĞİT G., DEMİR S., BAKIRDERE S.  
Journal of Nanoparticle Research, vol.27, no.3, 2025 (SCI-Expanded)
- VIII. **A sensitive determination of lead by hydride generation integrated with micro-sampling gas-liquid separator-FAAS after preconcentration by NiFe<sub>2</sub>O<sub>4</sub> nanoparticles**  
Ayyıldız M. F., Bodur S., BAKIRDERE S.  
Scientific reports, vol.15, no.1, pp.3172, 2025 (SCI-Expanded)
- IX. **A simple and efficient magnetic solid phase extraction strategy assisted by CoS@polypyrrole@Fe<sub>3</sub>O<sub>4</sub> nanocomposite for determination of palladium in the soil samples**  
Zeytinci N. K., Akbiyik H., Zaman B. T., Şahin Ç., BAKIRDERE S.  
Microchemical Journal, vol.208, 2025 (SCI-Expanded)
- X. **Biocompatible silver nanoparticles from apricot kernel skin: a green synthesis approach to antibacterial and antiangiogenic therapies**  
Nejati O., Torkay G., Girgin A., Zaman B. T., Akar R. O., Giray B., Ulukaya E., BAKIRDERE S., Bal-Öztürk A.  
Chemical Papers, vol.79, no.1, pp.447-462, 2025 (SCI-Expanded)
- XI. **Determination of Cobalt in Tap Water by Deep Eutectic Solvent-Dithizone Assisted Liquid Phase Microextraction (LPME) Preconcentration with Flame Atomic Absorption Spectrometry (FAAS)**  
Ağbulak A., Kılınç Y., Zaman B. T., Göver T., Atakol M., TURAK F., BAKIRDERE S.  
Analytical Letters, 2025 (SCI-Expanded)
- XII. **Dispersive solid phase extraction and quadruple isotope dilution-mass spectrometry combination for the accurate and sensitive quantification of capsaicin in pepper, domestic wastewater and human saliva samples by GC-MS system**  
Bodur S., ERARPAT BODUR S., GÜRSOY S., Ayyıldız M. F., Kartoğlu B., Akbiyik H., GÜNKARA Ö. T., BAKIRDERE S.  
Microchemical Journal, vol.208, 2025 (SCI-Expanded)
- XIII. **Development of a Solidification of Floating Organic Droplet-Based Liquid-Liquid Microextraction Method Utilizing a Schiff Base Ligand for the Determination of Nickel at Trace Levels in Saint John's Wort Tea Infusions by Matrix Matching Calibration Assisted Slotted Quartz Tube-Flame Atomic Absorption Spectroscopy**  
Atakol M., Akbiyik H., Atakol A., Yildirim V., BAKIRDERE S., ATAKOL O.  
Analytical Letters, 2025 (SCI-Expanded)
- XIV. **Determination of copper at trace levels in fennel tea samples by flame atomic absorption spectrometry after the implementation of simultaneous complexation and supramolecular solvent based spraying assisted liquid phase microextraction**  
Tutar B. K., Tutar Ö. F., Bodur S., Derin Y., Tutar A., BAKIRDERE S.  
Journal of Food Composition and Analysis, vol.137, 2025 (SCI-Expanded)
- XV. **Development of Mn<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub> nanoplates assisted treatment strategy for the removal of cadmium from synthetic domestic wastewater**  
Öner M., Akbiyik H., Gürsoy S., Demir C., ÇETİN G., BAKIRDERE S.  
Chemical Engineering Communications, 2025 (SCI-Expanded)
- XVI. **Development an effective adsorptive treatment strategy for the removal of cadmium from textile wastewater by CuBi<sub>2</sub>O<sub>4</sub>@Fe<sub>3</sub>O<sub>4</sub> nanocomposites**  
Büyük M. A., Serbest H., DALGIÇ BOZYİĞİT G., BAKIRDERE S.  
Chemical Engineering Communications, vol.212, no.3, pp.409-421, 2025 (SCI-Expanded)
- XVII. **Preconcentration of bismuth using nickel hydroxide nanoflower from water samples and determination by FAAS**  
YILDIZ O. B., Durukan İ., Şaylan M., Zaman B. T., BAKIRDERE S.  
Environmental Monitoring and Assessment, vol.197, no.1, 2025 (SCI-Expanded)

- XVIII. **Simultaneous determination of nineteen azo dyes in water samples by gas chromatography-mass spectrometry after Fe<sub>3</sub>O<sub>4</sub>@COF based dispersive solid phase extraction**  
Karlıdağ N. E., Bodur S., GÜNKARA Ö. T., BAKIRDERE S.  
Scientific Reports, vol.14, no.1, 2024 (SCI-Expanded)
- XIX. **Microwave-assisted synthesis of antimony oxide nanoparticles for the determination of trace cadmium in mulberry leaf tea matrices by flame atomic absorption spectrophotometry**  
İnce M. N., Serbest H., BAKIRDERE S.  
Journal of Analytical Science and Technology, vol.15, no.1, 2024 (SCI-Expanded)
- XX. **Synthesis of calcium phosphate nanomaterial from quail eggshell for cadmium removal from wastewater and its genotoxic/cytotoxic properties**  
Demir C., Bakırdere B. E., Zaman B. T., Öner M., DALGIÇ BOZYİĞİT G., Ergenler A., Turan F., Nejati O., Öztürk A. B., ÇETİN G., et al.  
Environmental Monitoring and Assessment, vol.196, no.12, 2024 (SCI-Expanded)
- XXI. **Combination of spraying based liquid phase microextraction and liquid chromatography–tandem mass spectrometry for the determination of colchicine at ultra–trace levels in artificial urine and serum samples**  
Kutlu R., Bodur S., GÜNKARA Ö. T., BAKIRDERE S.  
Microchemical Journal, vol.207, 2024 (SCI-Expanded)
- XXII. **Mn<sub>3</sub>O<sub>4</sub>–MnOOH nanocomposites for the adsorption-based removal of nickel ions from wastewater**  
Doru E. S., Öztürk Er E., Zaman B. T., BAKIRDERE S.  
Environmental Monitoring and Assessment, vol.196, no.12, 2024 (SCI-Expanded)
- XXIII. **Removal of cadmium ions from synthetic wastewater samples by copper ferrite magnetic nanoparticle–assisted batch-type adsorption-based removal strategy**  
Zaman B. T., Akbıyık H., Girgin A., DALGIÇ BOZYİĞİT G., BAKIRDERE E. G., BAKIRDERE S.  
Environmental Monitoring and Assessment, vol.196, no.12, 2024 (SCI-Expanded)
- XXIV. **Spray-assisted drop formation liquid-phase microextraction for the determination of sertraline in environmental water samples with matrix-matching calibration in GC–MS**  
Zeytinci N. K., Akbıyık H., Tezgin E., Zaman B. T., DALGIÇ BOZYİĞİT G., Şaylan M., BAKIRDERE S.  
Journal of Analytical Science and Technology, vol.15, no.1, 2024 (SCI-Expanded)
- XXV. **Combination of quadruple isotope dilution strategy and dispersive solid phase extraction method for accurate quantification of selected steroid hormones**  
Ular Çağatay N., Bodur S., Bodur S., Maviş M. E., BAKIRDERE S.  
Analytical Methods, vol.17, no.2, pp.256-264, 2024 (SCI-Expanded)
- XXVI. **Microwave-Assisted Synthesis of Selenium Nanoparticles: Bioactivity Insights**  
Tırlı B., Nejati O., Torkay G., Giray B., Bal-Öztürk A., BAKIRDERE S.  
ChemistrySelect, vol.9, no.43, 2024 (SCI-Expanded)
- XXVII. **Microwave-Assisted Synthesis Method for the Production of Carbon Nano Dots and Its Genotoxicity Assessment**  
Tekin Z., Ergenler A., Zaman B. T., GÜNKARA Ö. T., Depci T., Turan F., BAKIRDERE S.  
ChemistrySelect, vol.9, no.37, 2024 (SCI-Expanded)
- XXVIII. **Microwave-assisted synthesis of  $\gamma$ -aloox nanoflowers as an adsorbent for cadmium removal from domestic wastewater**  
Metin B., DALGIÇ BOZYİĞİT G., Zaman B. T., Er E. Ö., TURAK F., BAKIRDERE S.  
Environmental monitoring and assessment, vol.196, no.10, pp.996, 2024 (SCI-Expanded)
- XXIX. **A simple and efficient supramolecular solvent based liquid phase microextraction method for the preconcentration of nickel from dandelion tea samples before FAAS quantification, and the practicality and greenness assessment of developed method**  
Kartoğlu B., Bodur S., Gülhan Bakırdere E., BAKIRDERE S.  
Microchemical Journal, vol.205, 2024 (SCI-Expanded)
- XXX. **Development of dispersive solid phase extraction method for the preconcentration of parathion ethyl as a simulant of nerve agent sarin from soil, plant and water samples prior to GC–MS**

## **determination**

Bodur S., ERARPAT BODUR S., Tutar B. K., BAKIRDERE S., Yağmuroğlu O.  
Environmental Monitoring and Assessment, vol.196, no.9, 2024 (SCI-Expanded)

- XXXI. **Determination of trace amounts of metobromuron herbicide residues in fruits by QuEChERS and DLLME methods**  
Ofly S., Zaman B. T., Kılınç Y., Bakırdere S., Turak F.  
Journal of Food Composition and Analysis, vol.133, 2024 (SCI-Expanded)
- XXXII. **Determination of capsaicin at trace levels in different food, biological and environmental samples by quadruple isotope dilution-gas chromatography mass spectrometry after its preconcentration**  
ERARPAT BODUR S., Bodur S., Ayyıldız M. F., GÜNKARA Ö. T., Dikmen Y., Doru E. S., BAKIRDERE S.  
Journal of Chromatography A, vol.1731, 2024 (SCI-Expanded)
- XXXIII. **Efficient removal of estrone and 17 $\beta$ -estradiol from aqueous medium using UV irradiation-assisted fenton process**  
Dikmen Y., Şaylan M., Ofly S., Ayyıldız M. F., Serbest H., DALGIÇ BOZYİĞİT G., BAKIRDERE S.  
Chemical Papers, vol.78, no.13, pp.7477-7486, 2024 (SCI-Expanded)
- XXXIV. **Determination of trace levels of thiazopyr residues in oolong tea samples using metal sieve-linked double syringe based liquid-phase microextraction coupled with gas chromatography-mass spectrometry**  
Aydın N., UNUTKAN GÖSTERİŞLİ T., BAKIRDERE S.  
Journal of Food Composition and Analysis, vol.132, 2024 (SCI-Expanded)
- XXXV. **CoSn(OH)<sub>6</sub> nanocubes as a solid sorbent for the effective preconcentration of copper ions in cinnamon (Cinnamomum zeylanicum) extract**  
Bağcıvan A., Şaylan M., SAĞDIÇ O., BAKIRDERE S.  
Food Chemistry, vol.447, 2024 (SCI-Expanded)
- XXXVI. **Graphene oxide-zinc oxide nanocomposite modified disposable electrodes for detection of uric acid in fetal bovine serum**  
Yıldırım A., Maral M., Tugba Zaman B., Bozoglu A., Demir C., BAKIRDERE S., Erdem A.  
Journal of Electroanalytical Chemistry, vol.965, 2024 (SCI-Expanded)
- XXXVII. **Determination of acetylcysteine and cysteine in pharmaceutical formulations using a smartphone-based digital image colorimetric method**  
Şahin N., Kustanto T. B., Zaman B. T., Korkunç Ü. P., Gel M. S., BAKIRDERE S.  
Chemical Papers, vol.78, no.10, pp.6203-6210, 2024 (SCI-Expanded)
- XXXVIII. **Determination of ethalfluralin in soy flour samples using MnO<sub>2</sub>-deep eutectic solvent based nanofluid for its preconcentration prior to GC-FID measurement**  
Gürsoy S., Bombom M., Zaman B. T., TURAK F., Er E. Ö., Korkunç Ü. P., BAKIRDERE S.  
Chemical Papers, vol.78, no.11, pp.6545-6552, 2024 (SCI-Expanded)
- XXXIX. **Simultaneous removal of mixed pesticides and natural organic matter from surface waters by nitric and chlorosulfonic acid functionalized powdered activated carbon**  
Aykut-Senel B., Ozgur C., BAKIRDERE S., KAPLAN BEKAROĞLU Ş. Ş., ATEŞ N.  
Journal of Chemical Technology and Biotechnology, vol.99, no.7, pp.1646-1659, 2024 (SCI-Expanded)
- XL. **Development of a novel treatment strategy for the removal of cadmium from wastewater samples using poly(vinyl alcohol)-based magnetic hydrogel beads**  
Karlıdağ N. E., Göver T., Er E. Ö., DALGIÇ BOZYİĞİT G., TURAK F., BAKIRDERE S.  
Journal of Nanoparticle Research, vol.26, no.6, 2024 (SCI-Expanded)
- XLI. **Determination of copper ion at trace levels in apple tea samples by simultaneous complexation and spray assisted microextraction method prior to detection by flame atomic absorption spectrophotometry**  
Diridiri P. N., Bodur S., Bayraktar A., GÜNKARA Ö. T., BAKIRDERE S.  
Food Chemistry, vol.441, 2024 (SCI-Expanded)
- XLII. **Determination of copper in rose tea samples using flame atomic absorption spectrometry after emulsification liquid-liquid microextraction**

Kartoğlu B., Bodur S., ZEYDANLI D., Göver T., Özaydın E., Gülhan Bakırdere E., BAKIRDERE S.  
Food Chemistry, vol.439, 2024 (SCI-Expanded)

- XLIII. **Determination of phenytoin at trace levels in domestic wastewater and synthetic urine samples by gas chromatography-mass spectrometry after its preconcentration by simple liquid-phase microextraction**  
Bodur S., Ayan G. N., Bodur S., GÜNKARA Ö. T., BAKIRDERE S.  
Environmental Monitoring and Assessment, vol.196, no.5, 2024 (SCI-Expanded)
- XLIV. **Microwave-Assisted Hydrothermal Synthesis of Zinc-tin Based Nanoflower for the Adsorptive Removal of Cadmium from Synthetic Wastewater**  
Toprak M., YILDIZ O. B., Zaman B. T., DALGIÇ BOZYİĞİT G., Temuge İ. D., ÇETİN G., BAKIRDERE S.  
Water, Air, and Soil Pollution, vol.235, no.5, 2024 (SCI-Expanded)
- XLV. **Synthesis of Nanocube-Shaped Cobalt Tin Hydroxides for the Preconcentration of Lead in Environmental Seawater Collected from Antarctic Region**  
Şaylan M., Ayyıldız M. F., Zaman B. T., Korkunç Ü., Gürsoy S., ÇETİN G., BAKIRDERE S.  
ChemistrySelect, vol.9, no.9, 2024 (SCI-Expanded)
- XLVI. **Development of A Liquid-Phase Microextraction Method for Simultaneous Determination of Parabens in Lipstick Samples at Trace Levels by High-Performance Liquid Chromatography**  
UNUTKAN GÖSTERİŞLİ T., Kublay I. Z., KEYF S., BAKIRDERE S.  
Journal of Chromatographic Science, vol.62, no.3, pp.295-300, 2024 (SCI-Expanded)
- XLVII. **A simple and effective graphene oxide-zinc oxide nanocomposite based solid phase extraction method for the determination of cadmium in tea matrix at trace levels by flame atomic absorption spectrophotometry**  
Demir C., Öner M., ÇETİN G., BAKIRDERE S.  
Journal of Food Composition and Analysis, vol.127, 2024 (SCI-Expanded)
- XLVIII. **Trace Determination of Cadmium in Water Matrix by Matrix Matching Calibration Strategy-Based UV-Vis Spectrophotometer After Its Preconcentration**  
Yağmuroğlu O., BAKIRDERE E. G., BAKIRDERE S.  
Water, Air, and Soil Pollution, vol.235, no.3, 2024 (SCI-Expanded)
- XLIX. **An accurate and sensitive determination of selected pesticides in mixed fruit juice samples using the combination of a simple and efficient microextraction method and GC-MS with a matrix matching calibration strategy**  
Bodur S., Tutar B. K., Tutar Ö. F., BAKIRDERE S.  
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BAKIRDERE S., Bor Mineralinin İnsanda Erkek Fertilitesi ve Prostat Kanserine Etkisinin Belirlenmesi, 2005 - 2007

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BAKIRDERE S., TUBITAK Project, Şehir Atık Suyu Arıtma Tesisi Lağım Çamurundaki Kurşun un Kimyasal Yapısının Belirlenmesi, 1999 - 2000

## Peer Reviews in Scientific Publications

CLEAN - Soil, Air, Water, SCI Journal, Continues

Journal of Hazardous Materials, SCI Journal, Continues

Polish Journal of Environmental Studies, SCI Journal, Continues

Environmental Monitoring and Assessment, SCI Journal, Continues

Scientific Research and Essays, SCI Journal, Continues

Science of the Total Environment, SCI Journal, Continues

Fresenius Environmental Bulletin, SCI Journal, Continues

Analytical Letters, SCI Journal, Continues

Environmental Geochemistry and Health, SCI Journal, Continues

Talanta, SCI Journal, Continues

Instrumentation Science & Technology, SCI Journal, Continues

Chemistry and Ecology, SCI Journal, Continues

## Metrics

Publication: 605

Citation (WoS): 1943

Citation (Scopus): 4317

H-Index (WoS): 23

H-Index (Scopus): 33

## Awards

BAKIRDERE S., En İyi Poster Alanında Birincilik Ödülü, Sensitive Determination of Copper in Water Samples Using Dispersive Liquid-Liquid Microextraction-Slotted Quartz Tube-Flame Atomic Absorption Spectrometry, 7th International IUPAC Conference on Green Chemistry, October 2017

BAKIRDERE S., En İyi Poster Alanında İkincilik Ödülü, Sertralinin GC-MS Sisteminde Düşük Seviyelerde Tayinine Yönelik Analitik Yöntem Geliştirilmesi Ve Yapay Mide Ortamındaki Kararlılığının Tespit Edilmesi, Es-An 2016, IV. Eser Analiz Kongresi, May 2016

BAKIRDERE S., CITAC Best Papers Award 2011, Determination of arsenobetaine in fish tissue by species specific isotope dilution LC-LTQ-Orbitrap-MS and standard addition LC-ICPMS, CITAC, Cooperation on International Traceability in Analytical Chemistry, January 2011

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BAKIRDERE S., Perkin Elmer Excellent Poster Award, Interference Studies for Bismuth Determination by Tungsten Trap Atomic Absorption Spectrometry, Colloquium Spectroscopicum Internationale XXXV, September 2007

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## Non Academic Experience

National Research Center, Canada, Researcher