

## **Prof. Sezgin BAKIRDERE**

### **Personal Information**

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### **International Researcher IDs**

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ScopusID: 6506190285

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### **Education**

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

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

Undergraduate, Fırat 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, Fırat 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 Positions**

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

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

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

Assistant Professor, Yıldız 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 Yarıklı 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 Sisteminde 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 Basıncılı 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

## Journal articles indexed in SCI, SSCI, and AHCI

- I. **Investigation of cadmium removal using tin oxide nanoflowers through process optimization, isotherms and kinetics**  
GÜRSOY S., Bombom M., Zaman B. T., TURAK F., BAKIRDERE S., Er E. Ö.  
Scientific Reports, vol.15, no.1, 2025 (SCI-Expanded)
- II. **Combination of QuEChERS and switchable-hydrophilicity solvent based liquid-liquid microextraction for the accurate determination of pyridalyl and metalaxyl pesticides at trace levels**  
Akbiyık H., Karakebab K., Girgin A., TURAK F., BAKIRDERE S.  
Journal of Food Composition and Analysis, vol.144, 2025 (SCI-Expanded)
- III. **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)
- IV. **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)
- V. **Multilayer Antibacterial Hydrogel Wound Dressings Incorporated With Green Synthesized Silver Nanoparticles**  
Alipour A., Nejati O., Yaşayan G., Girgin A., Zaman B. T., Giray B., Karal-Yılmaz O., BAKIRDERE S., Bal-Öztürk A.  
Drug Development Research, vol.86, no.3, 2025 (SCI-Expanded)
- VI. **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)

- VII. **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)
- VIII. **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)
- IX. **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**  
Bahçıvan A., Atakol A., Zaman B. T., DALGIÇ BOZYİĞİT G., DEMİR S., BAKIRDERE S.  
Journal of Nanoparticle Research, vol.27, no.3, 2025 (SCI-Expanded)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- 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., Akbıyık H., Gürsoy S., Demir C., ÇETİN G., BAKIRDERE S.  
Chemical Engineering Communications, 2025 (SCI-Expanded)
- XVI. **Development of an iron-metal organic Framework-based dispersive solid phase extraction coupled with flame atomic absorption spectrophotometry for the accurate and sensitive determination of copper in lion's claw tea samples**  
Tekin Semerci Z., Karakebab K. Ü., Nur Karaman D., Yilmaz E., DALGIÇ BOZYİĞİT G., Er E. Ö., BAKIRDERE S.  
Analytical Methods, 2025 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)

- XIX. **A simple and efficient magnetic solid phase extraction strategy assisted by CoS@polypyrrole@Fe3O4 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)
- XX. **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)
- XXI. **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)
- XXII. **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., Akbiyik 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)
- XXIII. **Removal of cadmium ions from synthetic wastewater samples by copper ferrite magnetic nanoparticle-assisted batch-type adsorption-based removal strategy**  
Zaman B. T., Akbiyik H., Girgin A., DALGIÇ BOZYİĞİT G., BAKIRDERE E. G., BAKIRDERE S.  
Environmental Monitoring and Assessment, vol.196, no.12, 2024 (SCI-Expanded)
- XXIV. **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)
- XXV. **Mn3O4–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)
- XXVI. **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)
- XXVII. **Simultaneous determination of nineteen azo dyes in water samples by gas chromatography-mass spectrometry after Fe3O4@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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **Microwave-Assisted Synthesis of Selenium Nanoparticles: Bioactivity Insights**

Tıslı B., Nejati O., Torkay G., Giray B., Bal-Öztürk A., BAKIRDERE S.

ChemistrySelect, vol.9, no.43, 2024 (SCI-Expanded)

- XXXI. **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)
- XXXII. **Microwave-assisted synthesis of  $\gamma$ -aloooh 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)
- XXXIII. **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)
- XXXIV. **Determination of trace amounts of metobromuron herbicide residues in fruits by QuEChERS and DLLME methods**  
Ofu S., Zaman B. T., Kılınç Y., Bakırdere S., Turak F.  
Journal of Food Composition and Analysis, vol.133, 2024 (SCI-Expanded)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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**  
Ayдын N., UNUTKAN GÖSTERİŞLİ T., BAKIRDERE S.  
Journal of Food Composition and Analysis, vol.132, 2024 (SCI-Expanded)
- XXXVIII. **Efficient removal of estrone and 17 $\beta$ -estradiol from aqueous medium using UV irradiation-assisted fenton process**  
Dikmen Y., Şaylan M., Ofu S., Ayyıldız M. F., Serbest H., DALGIÇ BOZYİĞİT G., BAKIRDERE S.  
Chemical Papers, vol.78, no.13, pp.7477-7486, 2024 (SCI-Expanded)
- XXXIX. **CoSn(OH)<sub>6</sub> nanocubes as a solid sorbent for the effective preconcentration of copper ions in cinnamon (Cinnamomum zeylanicum) extract**  
Bahçıvan A., Şaylan M., SAĞDIÇ O., BAKIRDERE S.  
Food Chemistry, vol.447, 2024 (SCI-Expanded)
- XL. **Graphene oxide-zinc oxide nanocomposite modified disposable electrodes for detection of uric acid in fetal bovine serum**  
Yildirim A., Maral M., Tugba Zaman B., Bozoglu A., Demir C., BAKIRDERE S., Erdem A.  
Journal of Electroanalytical Chemistry, vol.965, 2024 (SCI-Expanded)
- XLI. **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)
- XLII. **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., BAKIRDERE S.  
Chemical Papers, vol.78, no.11, pp.6545-6552, 2024 (SCI-Expanded)

- XLIII. **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., Gel M. S., BAKIRDERE S.  
Chemical Papers, vol.78, no.10, pp.6203-6210, 2024 (SCI-Expanded)
- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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.  
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- CC. **Determination of trace manganese in soil samples by using eco-friendly switchable solvent based liquid phase microextraction-3 holes cut slotted quartz tube-flame atomic absorption spectrometry**

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- CCI. **Development of a sensitive microextraction strategy for the accurate determination of tebuconazole and etrimfos by gas chromatography-mass spectrometry**

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- CCIII. **Fe3O4/reduced graphene oxide nanocomposites based dispersive solid phase microextraction for trace determination of profenofos in white rice flour samples**

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- CCIV. **Assessment of different isotope dilution strategies and their combination with switchable solvent-based liquid phase microextraction prior to the quantification of bisphenol A at trace levels via GC-MS**

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- CCV. **A Simultaneous Dispersive Liquid-Liquid Microextraction-complexation Method to Determine Trace Cobalt in Chamomile Tea Extract Prior to Slotted Quartz Tube Flame Atomic Absorption Spectrometry**  
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- CCVIII. **Preliminary study testing the effects of tea and coffee on sludge characteristics and N-butyryl-L-homoserine lactone in an MBR system**  
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- CCIX. **Determination of iron in hair samples by slotted quartz tube-flame atomic absorption spectrometry after switchable solvent liquid phase extraction**  
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- CCX. **Liquid phase microextraction strategies and their application in the determination of endocrine disruptive compounds in food samples**  
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- CCXI. **Reverse phase dispersive liquid-liquid microextraction coupled to slotted quartz tube flame atomic absorption spectrometry as a new analytical strategy for trace determination of cadmium in fish and olive oil samples**  
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- CCXII. **A Simple and Green Vortex-Assisted Switchable Solvent-Based Microextraction Method by Using Schiff Base Ligand Complexation for Iron Determination in Mineral Spring Water Samples Prior to Slotted Quartz Tube Flame Atomic Absorption Spectrophotometry**  
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- CCXIII. **Simple, Sensitive, and Selective High Performance Liquid Chromatographic (HPLC) Method for the Determination of Buturon in Herbal Tea, Dried Blueberry, and Cranberry Samples and Evaluation of Its Stability in Gastric Conditions**  
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- CCXIV. **Accurate and Sensitive Reverse Phase High-Performance Liquid Chromatographic Determination of Arbutin in Blueberries and Characterization of Its Stability in Simulated Gastric Fluid and under Ultraviolet Irradiation**  
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- CCXV. **Removal of Selected Micropollutants from Synthetic Wastewater by Electrooxidation Using Oxidized Titanium and Graphite Electrodes**  
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- CCXVI. **A new derivatization method for the determination of propineb in black tea and infant formula samples using dispersive liquid-liquid microextraction followed by gas chromatography-mass spectrometry**  
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- CCXVIII. **Feasibility studies on the uptake and bioaccessibility of pesticides, hormones and endocrine disruptive compounds in plants, and simulation of gastric and intestinal conditions**  
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- CCXIX. **A simple and efficient preconcentration method based on vortex assisted reduced graphene oxide magnetic nanoparticles for the sensitive determination of endocrine disrupting compounds in different water and baby food samples by GC-FID**  
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- CCXX. **Hydride generation-flame atomic absorption spectrometric quantification of trace lead after the extraction by fatty acid functionalized Fe<sub>3</sub>O<sub>4</sub> nanoparticles assisted dispersive solid-phase extraction: A sensitive, precise and accurate analytical method**  
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- CCXXI. **Determination of trace nickel in chamomile tea and coffee samples by slotted quartz tube-flame atomic absorption spectrometry after preconcentration with dispersive liquid-liquid microextraction method using a Schiff base ligand**  
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- CCXXII. **Simple, Accurate and Precise Determination of the Fungicide Zoxamide in Wine and the Characterization of its Stability in Gastric Conditions by Reverse-Phase High-Performance Liquid Chromatography (RP-HPLC)**  
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- CCXXIII. **Sensitive Determination of Selected Drug Active Compounds in Wastewater Matrices by LC-QTOF-MS/MS after Vortex Assisted Binary Solvents Dispersive Liquid-Liquid Microextraction**  
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- CCXXIV. **Analytical protocol for determination of endosulfan beta, prothiofos, chlorpyrifos, and acibenzolar-s-methyl in lake water and wastewater samples by gas chromatography-mass spectrometry after dispersive liquid-liquid microextraction**  
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- CCXXV. **Combination of vortex assisted binary solvent microextraction and QuEChERS for the determination of prothiofos, oxadiargyl, and gamma-cyhalothrin in water and pineapple samples by gas chromatography mass spectrometry**  
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- CCXXVI. **Development of a sensitive and accurate method for the simultaneous determination of selected insecticides and herbicide in tap water and wastewater samples using vortex-assisted switchable**

**solvent-based liquid-phase microextraction prior to determination by gas chromatography-mass spectrometry**

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- CCXXVII. **A green, accurate and sensitive analytical method based on vortex assisted deep eutectic solvent-liquid phase microextraction for the determination of cobalt by slotted quartz tube flame atomic absorption spectrometry**

Tekin Z., Unutkan T., Erulaş F., Bakırdere E. G., Bakırdere S.

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- CCXXVIII. **Analysis of Conventionally and Magnetic-Field Dried Fruit and Nuts for Mycotoxins by High-Performance Liquid Chromatography–Tandem Mass Spectrometry (HPLC-MS/MS) and Trace Elements by Inductively Coupled Plasma–Mass Spectrometry (ICP-MS)**

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- CCXXIX. **Peristaltic pump-assisted zirconium nanoparticle-based pipette-tip solid phase extraction for the determination of cobalt by slotted quartz tube-flame atomic absorption spectrophotometry**

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- CCXXX. **Application of oleic acid functionalized magnetic nanoparticles for a highly sensitive and efficient dispersive magnetic solid phase extraction of fenazaquin in almond samples for determination by gas chromatography mass spectrometry**

Turan N. B., TuğbaZaman B., BAKIRDERE S.

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- CCXXXI. **Combination of ultrasound-assisted ethyl chloroformate derivatization and switchable solvent liquid-phase microextraction for the sensitive determination of l-methionine in human plasma by GC–MS**

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- CCXXXII. **Traceable and accurate quantification of iron in seawater using isotope dilution calibration strategies by triple quadrupole ICP-MS/MS: Characterization measurements of iron in a candidate seawater CRM**

Arı B., Can S. Z., BAKIRDERE S.

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- CCXXXIII. **Determination of fenazaquin in water and tomato matrices by GC-MS after a combined QuEChERS and switchable solvent liquid phase microextraction**

Turan N. B., Maltepe E., Chormey D. S., BAKIRDERE S.

Environmental Monitoring and Assessment, vol.192, no.2, 2020 (SCI-Expanded)

- CCXXXIV. **A sieve-conducted two-syringe-based pressurized liquid-phase microextraction for the determination of indium by slotted quartz tube-flame atomic absorption spectrometry**

UNUTKAN T., Borahan T., Girgin A., BAKIRDERE S.

Environmental Monitoring and Assessment, vol.192, no.2, 2020 (SCI-Expanded)

- CCXXXV. **Validation of ultrasonic-assisted switchable solvent liquid phase microextraction for trace determination of hormones and organochlorine pesticides by GC–MS and combination with QuEChERS**

Durak B. Y., Chormey D. S., Firat M., Bakırdere S.

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- CCXXXVI. **A novel determination method for diuron in seaweed samples: Combination of quadruple isotope dilution strategy with liquid chromatography - quadrupole time of flight - tandem mass spectrometry for superior accuracy and precision**

Tekin Z., Öztürk E., Günkara Ö. T., Bakırdere S.

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- CCXXXVII. **Accurate and Precise Determination of Gold in Plating Bath Solution: Deep Eutectic Solvent Based Liquid Phase Microextraction–Slotted Quartz Tube–Flame Atomic Absorption Spectrometry**  
Yılmaz Ö., Durak B. Y., Tekin Z., Koçoğlu E. S., Bakırdere S.  
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- :CCXXXVIII. **Combination of stearic acid coated magnetic nanoparticle based sonication assisted dispersive solid phase extraction and slotted quartz tube-flame atomic absorption spectrophotometry for the accurate and sensitive determination of lead in red pepper samples and assessment of green profile**  
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- CCXXXIX. **Optimization of atrazine removal from synthetic groundwater by electrooxidation process using titanium dioxide and graphite electrodes**  
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- CCXL. **Determination of Trace Element Concentrations in Blood Samples and Their Correlation to Breast Cancer**  
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- CCXLI. **Influence of Hydraulic Retention Time (HRT) upon the Treatment of Wastewater by a Laboratory-Scale Membrane Bioreactor (MBR)**  
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- CCXLII. **Optimization of T-shape slotted quartz tube with exit holes-atom trap-flame atomic absorption spectrophotometry system for the accurate and sensitive determination of tellurium in tap water**  
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- CCXLIII. **Rapid, accurate and sensitive determination of fenpropathrin as insecticide in dried strawberry samples by high performance liquid chromatography, and in vivo stability and behavior under gastric conditions**  
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- CCXLIV. **Removal of Heavy Metals by a Membrane Bioreactor Combined with Activated Carbon**  
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- CCXLV. **A powerful combination of quadruple isotope dilution strategy with dispersive magnetic solid phase extraction for the accurate and precise multi-analyte determination of tadalafil, sildenafil, avanafil and vardenafil in human plasma and urine samples using LC-ESI-Tandem MS**  
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- CCXLVI. **An accurate determination method for cobalt in sage tea and cobalamin: Slotted quartz tube-flame atomic absorption spectrometry after preconcentration with switchable liquid-liquid microextraction using a Schiff base**  
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- CCXLVII. **Determination of indium in lettuce samples using hydrogen supported-T-cut-slotted quartz tube-atom trap-flame atomic absorption spectrometry**  
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- CCXLVIII. **Determination of cadmium at trace levels in parsley samples by slotted quartz tube-flame atomic absorption spectrometry after preconcentration with cloud point extraction**  
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- CCXLIX. **Oleic and stearic acid-coated magnetite nanoparticles for sonication-assisted binary micro-solid phase extraction of endocrine disrupting compounds, and their quantification by GC-MS**  
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- CCLII. **Determination of lead in milk samples using vortex assisted deep eutectic solvent based liquid phase microextraction-slotted quartz tube-flame atomic absorption spectrometry system**  
Borahan T., Unutkan T., Turan N. B., Turak F., Bakırdere S.  
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- CCLIII. **Determination of endocrine disruptive phenolic compounds by gas chromatography mass spectrometry after multivariate optimization of switchable liquid-liquid microextraction and assessment of green profile**  
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- CCLIV. **Determination of trace nickel in spinach samples using the combination of vortex-assisted deep eutectic solvent-based liquid phase microextraction and slotted quartz tube-flame atomic absorption spectrometry**  
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- CCLV. **Determination of glycine in body fluids at trace levels using the combination of quadrupole isotope dilution strategy and Liquid Chromatography-Quadrupole Time of Flight-Tandem Mass Spectrometry**  
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- CCLVI. **Simultaneous determination of drug active compound, hormones, pesticides, and endocrine disruptor compounds in wastewater samples by GC-MS with direct calibration and matrix matching strategies after preconcentration with dispersive liquid-liquid microextraction**  
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- CCLVII. **Accurate and sensitive determination of lead in black tea samples using cobalt magnetic particles based dispersive solid-phase microextraction prior to slotted quartz tube-flame atomic absorption spectrometry**  
Akkaya E., Erulas F. A., Büyükpınar Ç., BAKIRDERE S.  
Food Chemistry, vol.297, 2019 (SCI-Expanded)
- CCLVIII. **Determination of micropollutants in wastewater matrix using gas chromatography-mass spectrometry after optimization of dispersive liquid-liquid microextraction**  
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- CCLIX. **Application of supercritical gel drying method on fabrication of mechanically improved and biologically safe three-component scaffold composed of graphene oxide/chitosan/hydroxyapatite and characterization studies**  
Yılmaz P., Öztürk Er E., Bakırdere S., Ülgen K., Özbek B.  
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- CCLX. **Determination of palladium in soil samples by slotted quartz tube-flame atomic absorption spectrophotometry after vortex-assisted ligandless preconcentration with magnetic nanoparticle-**

**based dispersive solid-phase microextraction.**

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- CCLXI. **Experimental design of switchable solvent-based liquid phase microextraction for the accurate determination of etrimfos from water and food samples at trace levels by GC-MS**  
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- CCLXII. **Determination of butyltin compounds in fish and mussel samples at trace levels by vortex assisted dispersive liquid-liquid microextraction-gas chromatography mass spectrometry**  
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- CCLXIII. **Binary dispersive liquid-liquid microextraction strategy for accurate and precise determination of micropollutants in lake, well and wastewater matrices**  
Sarı Erkan H., Chormey D. S., Çağlak A., Dalgıç Bozyiğit G., Maltepe E., Engin G., Bakırdere S.  
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- CCLXIV. **Application of Supercritical Gel Drying Method on Fabrication of Mechanically Improved and Biologically Safe Three-Component Scaffold Composed of Graphene Oxide/Chitosan/Hydroxyapatite and Characterization Studies (Article in Press)**  
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- CCLXV. **Determination of Vitamin B12 and cobalt in egg yolk using vortex assisted switchable solvent based liquid phase microextraction prior to slotted quartz tube flame atomic absorption spectrometry**  
Tekin Z., ERARPAT S., Şahin A., Chormey D. S., BAKIRDERE S.  
FOOD CHEMISTRY, vol.286, pp.500-505, 2019 (SCI-Expanded)
- CCLXVI. **Accurate and Sensitive Determination Method for Procymidone and Chlorflurenol in Municipal Wastewater, Medical Wastewater and Irrigation Canal Water by GC-MS After Vortex Assisted Switchable Solvent Liquid Phase Microextraction**  
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- CCLXVIII. **Magnetic cobalt particle-assisted solid phase extraction of tellurium prior to its determination by slotted quartz tube-flame atomic absorption spectrophotometry**  
Özdoğan N., Kapukıran F., ÖZTÜRK ER E., BAKIRDERE S.  
Environmental Monitoring and Assessment, vol.191, no.6, 2019 (SCI-Expanded)
- CCLXIX. **Accurate, sensitive, and precise determination of cobalt in soil matrices by the combination of batch type gas-liquid separator-assisted photochemical vapor generation and atomic absorption spectrophotometry**  
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Akkaya E., Bozyigit G., BAKIRDERE S.

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- CCLXXIII. **Simultaneous Determination of Fluoxetine, Estrone, Pesticides, and Endocrine Disruptors in Wastewater by Gas Chromatography-Mass Spectrometry (GC-MS) Following Switchable Solvent-Liquid Phase Microextraction (SS-LPME)**  
ERARPAT S., ÇAĞLAK A., BODUR S., Chormey S. D., Engin G., BAKIRDERE S.  
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- CCLXXIV. **Sensitive and Accurate Determination of Cobalt at Trace Levels by Slotted Quartz Tube-Flame Atomic Absorption Spectrometry Following Preconcentration with Dispersive Liquid-Liquid Microextraction**  
Deniz S., Kasa A., Sel S., Buyukpinar C., Bakirdere S.  
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- CCLXXV. **Accurate and sensitive determination of harmful aromatic amine products of azo dyes in wastewater and textile samples by GC-MS after multivariate optimization of binary solvent dispersive liquid-liquid microextraction**  
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- CCLXXVI. **Evaluation of magnetic field assisted sun drying of food samples on drying time and mycotoxin production**  
Nuroglu E., Öz E., Bakirdere S., Bursalioglu E. O., Kavanoz H. B., İçelli O.  
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- LII. **Solid Phase Microextraction Strategies in the Determination of Organic/Inorganic Analytes**  
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- LIII. **A Simple and Green Switchable Solvent Based Microextraction Method by Using Novel Schiff Base Ligand for Iron Determination in Mineral Spring Waters Prior to Slotted Quartz Tube-Atomic Absorption Spectrophotometry**  
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- LIV. **Simultaneous Determination of Four Endocrine Disrupting Compounds with Gas Chromatography-Flame Ionization Detector after Binary Solvent Liquid-Liquid Microextraction in Well and Hospital Wastewater Samples**  
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- LV. **Atıksularda Mikrokirleticilerin Giderimi İçin Kullanılan Arıtma Teknolojileri**  
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- LVI. **Strategies to Obtain High Accuracy and Sensitivity in Chromatographic Systems**  
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- LVII. **Determination of trace amounts of gold in gold recovery bath using dispersive liquid-liquid microextraction-slotted quartz tube-flame atomic absorption spectrometry**  
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- LVIII. **A novel extraction method for trace determination of nickel in water samples by slotted quartz tube-flame atomic absorption spectrometry after dispersive assisted simultaneous complexation and extraction strategy**  
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ÖZTÜRK ER E., AKKAYA E., ÖZBEK B., BAKIRDERE S.  
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- LX. **Development of a Sensitive and Accurate Dispersive Liquid – Liquid Microextraction Method for the Determination of Hydroxymethylfurfural in Honey Samples by HPLC after the Optimization by BoxBehnken Design**  
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- LXI. **Accurate and sensitive simultaneous determination of drug active compound, pesticides, hormones and endocrine disruptor compounds in wastewater samples using GC-MS after dispersive liquid-liquid microextraction**

Koçoğlu E. S., Sözüdoğru O., Komesli O. T., Yılmaz A. E., Bakırdere S.

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- LXII. **Determination of cadmium in tap, sea and waste water samples by vortex assisted dispersive liquid-liquid solidified floating organic drop microextraction and slotted quartz tube FAAS after complexation with an imidazole based ligand**  
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- LXIII. **Analytical strategies to obtain lower detection limits**  
BAKIRDERE S.  
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- LXIV. **Switchable solvent liquid-phase microextraction-gas chromatography-quadrupole isotope dilution mass spectrometry for the determination of 4-n-nonylphenol in municipal waste water**  
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- LXV. **Development of simultaneous determination method for selected pharmaceuticals and pesticides in wastewater by GC-MS to build up the treatment strategies**  
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- LXVI. **A rapid and sensitive RP-HPLC method for simultaneous determination of ibuprofen and paracetamol in drug samples and their behaviour in simulated gastric conditions**  
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- LXVII. **Multivariate optimization of sonication assisted binary solid phase microextraction based on oleic and stearic acid coated magnetite nanoparticles for the determination of endocrine disruptive compounds in aqueous medium by GC-MS**  
Chormey D. S., Akkaya E., Erulaş A. F., BAKIRDERE S.  
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- LXVIII. **Accurate and sensitive analytical strategy for the determination of trace antimony: Hydrogen assisted T-shaped slotted quartz tube-atom trap-flame atomic absorption spectrometry**  
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- LXIX. **Development of a sensitive and accurate switchable liquid-liquid microextraction method for cobalt determination by slotted quartz tube flame atomic absorption spectrometry**  
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- LXX. **Simultaneous determination of procymidone, chlorflurenol and iprodione in wastewater and lake water by GC-MS after experimental design of binary dispersive liquid-liquid microextraction**  
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- LXXI. **Multivariate optimization of switchable solvent liquid phase microextraction for the determination of etrimfos in lake and well water by GC-MS**  
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- LXXII. **Analytical strategies to obtain lower detection limits, 11th Aegean Analytical Chemistry Days**  
Bakırdere S.  
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- LXXIII. **Determination of bismuth in bottled water and mineral water samples at trace levels by T-shaped slotted quartz tube-atom trap-flame atomic absorption spectrometry**  
Bodur S., Erarpat S., Chormey D. S., Büyükpınar Ç., Bakırdere S.  
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- LXXIV. **Production and characterization studies of a three-component scaffold composed of hydroxyapatite-**

**graphene oxide-chitosan for bone tissue engineering applications**

YILMAZ P., ÖZTÜRK ER E., BAKIRDERE S., Ülgen K., ÖZBEK B.

23rd International Congress of Chemical and Process Engineering (CHISA 2018), Prag, Czech Republic, 25 August 2018

- LXXV. **Toxicity Effect Investigation of Graphene Oxide Addition into a Three-Component Scaffold Composed of Hydroxyapatite-Graphene Oxide-Chitosan for Bone Tissue Engineering Applications**  
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- LXXVI. **Nikelin dağıtıcı sıvı sıvı mikroekstraksiyon sonrası yarıklı kuartz tüp alevli atomik absorpsiyon spektrofotometresi ile eser seviyelerde tayini**  
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- LXXVII. **Kurşun elementinin manyetik nanopartikül yardımcı önderiştirilme sonrası SQT-FAAS cihazıyla eser seviyelerde tayini**  
Erulaş A. F., Akkaya E., BÜYÜKPINAR Ç., BAKIRDERE S.  
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- LXXVIII. **The effect of HRT and SRT in the treatment of domestic wastewater by MBR**  
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- LXXIX. **Development of a Sensitive and Accurate Dispersive Liquid-Liquid Microextraction Strategy for the Determination of Harmful Azo Dyes Products by Gas Chromatography-Mass Spectrometry**  
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- LXXX. **Determination of Ultratrace Cadmium by a New Combination: Solid Phase Microextraction by Stearic Acid Coated Magnetic Nanoparticles Prior To Batch Type Hydride Generation Atomic Absorption Spectrometry**  
Kasa N. A., Akkaya E., Zaman B. T., ÇETİN G., BAKIRDERE S.  
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- LXXXI. **Determination of Cadmium in Aqueous Samples Using a Sensitive Closed Batch Vessel Hydride Generation Atomic Absorption Spectrometry Method**  
BÜYÜKPINAR Ç., Bekar B., Maltepe E., Chormey D. S., TURAK F., SAN N., BAKIRDERE S.  
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- LXXXII. **Novel analytical strategies for the accurate and sensitive determination of the environmental contaminants**  
Chormey D. S., BAKIRDERE S.  
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- LXXXIII. **Determination of Harmful Aromatic Amine Products after Azo Dyes Reductive Cleavage by Gas Chromatography Mass Spectrometry**  
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8TH BLACK SEA BASIN CONFERENCE ON ANALYTICAL CHEMISTRY, İstanbul, Turkey, 09 May 2018, pp.176
- LXXXIV. **Determination of Cadmium in Environmental Samples by Slotted Quartz Tube Flame Atomic Absorption Spectrometry after Vortex Assisted Switchable Liquid-Liquid Microextraction**  
Fırat M., Bodur S., Tışlı B., Özlü C., Chormey D. S., TURAK F., BAKIRDERE S.  
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- LXXXV. **Quadrupole Isotope Dilution Mass Spectrometry-Dispersive Liquid-Liquid Microextraction Using Multivariate Optimization: A Novel Analytical Approach for the Determination of Parathion Methyl in Water**  
Chormey D. S., ÖZTÜRK ER E., ERARPAT S., Özzeybek G., Arı B., BAKIRDERE S.  
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- LXXXVI. **A New Analytical Strategy for the Determination of Indium**  
Çelik B., Akkaya E., Bakırdere S., Aydın F.  
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- LXXXVII. **Development of an Accurate and Sensitive Analytical Method for the Determination of Cadmium Using Hydrogen Assisted T-Shape Slotted Quartz Tube-Atom Trap-Flame Atomic Absorption Spectrophotometry**  
Şahin İ., Büyükpınar Ç., San N., Bakırdere S.  
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- LXXXVIII. **Study of electron density via some elements in breast cancer patients' blood samples**  
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- XC. **Matrix Matching and Matrix Dilution for the Accurate Determination of Pesticides, Hormones and Endocrine Disruptor Compounds in Complex Matrices**  
Chormey D. S., Fırat M., BÜYÜKPINAR Ç., TURAK F., Erulaş F., Komesli O. T., BAKIRDERE S.  
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- XCII. **Determination of Copper at Trace Levels in Mineral Water Samples by Slotted Quartz Tube Atomic Absorption Spectrometry after Dispersive Liquid-Liquid Microextraction**  
Zaman B. T., Kasa N. A., Deniz S., Sel S., Chormey D. S., BÜYÜKPINAR Ç., BAKIRDERE E. G., BAKIRDERE S.  
7th International IUPAC Conference on Green Chemistry, Moskova, Russia, 02 October 2017, pp.68
- XCIII. **Arsenic Speciation in Chicken and Water Samples at Trace Levels by Ion Chromatography-Inductively Coupled Plasma-Mass Spectrometry**  
Fırat M., BAKIRDERE S., Sel S., Chormey D. S., Elkıran Ö., Erulaş F., TURAK F.  
7th International IUPAC Conference on Green Chemistry, Moskova, Russia, 02 October 2017, pp.64
- XCIII. **A Sensitive and Selective Method For Simultaneous Determination of Sildenafil and Tadalafil in Tap Water and Sewage Sludge Samples by LC-QTOF-MS/MS**  
ÖZTÜRK ER E., BAKIRDERE S., ÖZBEK B.  
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- XCIV. **Simultaneous Determination of Niacin and Pyridoxine at Trace Levels by Using HPLC and LC-QTOF-MS/MS**  
Sel S., ÖZTÜRK ER E., TURAK F., BAKIRDERE S.  
7th International IUPAC Conference on Green Chemistry, Moskova, Russia, 02 October 2017, pp.56
- XCIV. **Determination of Cadmium in Wastewater at Ultratrace Levels by Dispersive Liquid-Liquid Microextraction and Batch Type Hydride Generation Atomic Absorption Spectrometry**  
Kasa N. A., Chormey D. S., Büyükpınar Ç., Turak F., Budak T., Bakırdere S.  
7th International IUPAC Conference on Green Chemistry, Moscow, Russia, 2 - 05 October 2017
- XCVI. **Sensitive Determination of Lead using Slotted Quartz T Tube-Atom Trap-Flame Atomic Absorption Spectrometry**  
Uslu H., UNUTKAN T., Serbest H., BÜYÜKPINAR Ç., TURAK F., BAKIRDERE S.  
7th International IUPAC Conference on Green Chemistry, Moskova, Russia, 02 October 2017, pp.58
- XCVII. **Development of a Photochemical Vapor Generation-Batch Type Ultrasonication Assisted Gas Liquid Separator- Atomic Absorption Spectrometry Method for the Trace Determination of Nickel in Soil and Water Samples**  
BÜYÜKPINAR Ç., Maltepe E., Chormey D. S., SAN N., BAKIRDERE S.  
7th International IUPAC Conference on Green Chemistry, Moskova, Russia, 02 October 2017, pp.42
- XCVIII. **Sensitive Determination of Cadmium Using Solidified Floating Organic Drop Microextraction-Slotted**

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Akkaya E., Chormey D. S., BAKIRDERE S.

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**XCIX. A Novel Liquid-Liquid Extraction for the Determination of Sertraline in Tap Water and Waste Water Samples at Trace Levels by GC-MS**

KOÇOĞLU E. S., BAKIRDERE S., KEYF S.

7th International IUPAC Conference on Green Chemistry, 2 - 05 October 2017

**C. Dispersive Liquid-Liquid Microextraction-Slotted Quartz Tube-Flame Atomic Absorption Spectrometry for the Sensitive Determination of Lead in Mussel and Sea Water Samples**

Özzybek G., ERARPAT S., Chormey D. S., BAKIRDERE S.

7th International IUPAC Conference on Green Chemistry, Moskova, Russia, 02 October 2017, pp.49

**CI. Determination of cadmium in drinking and wastewater by dispersive liquid-liquid microextraction slotted quartz tube flame atomic absorption spectrometry system after complexation with a new imidazole based ligand**

Yazıcı E., Bakırdere S., Fırat M., Chormey D. S., Turak F., Şahin Ç., Budak T.

5th International Conference on Sustainable Solid Waste Management, Athens, Greece, 21 - 24 June 2017, (Summary Text)

**CII. Antimonun Yarıklı Kuartz Tüp-Alevli Atomik Absorpsiyon Sistemi ile Düşük Seviyelerde Tayini**

KOYUNCU İ., BAKIRDERE S., BÜYÜKPINAR Ç.

8. Öğrenci Kongresi, 16 - 18 May 2017

**CIII. A Novel Liquid-Liquid Extraction for the Determination of Naphthalene in Tap Water at Trace Levels by GC-MS with Deuterated Anthracene as Internal Standard**

ERARPAT S., Özzybek G., Chormey D. S., Erulaş F., TURAK F., BAKIRDERE S.

10th Aegean Analytical Chemistry Days, Çanakkale, Turkey, 29 September 2016, pp.238, (Full Text)

**CIV. Volatile Compound Generation Strategies in Analytical Chemistry**

Bakırdere S.

10th Aegean Analytical Chemistry Days, Çanakkale, Turkey, 29 September 2016, pp.14, (Full Text)

**CV. Simultaneous Determination of Sildenafil and Tadalafil in Legal, Illicit/Counterfeit Drugs and Waste Water Samples by High Performance Liquid Chromatography**

Fidan A. K., BAKIRDERE S.

10th Aegean Analytical Chemistry Days, Çanakkale, Turkey, 29 September 2016, pp.86

**CVI. Simultaneous Determination of Selected Hormones, Endocrine Disruptive Compounds and Pesticides in Water Samples by GC-MS after Dispersive Liquid-Liquid Microextraction**

Chormey D. S., TURAK F., BOZDOĞAN A. E., Komesli O. T., BÜYÜKPINAR Ç., BAKIRDERE S.

10th Aegean Analytical Chemistry Days, Çanakkale, Turkey, 29 September 2016, pp.35

**CVII. Determination of Trace Amount of Cadmium using Dispersive Liquid Liquid Microextraction-Slotted Quartz Tube-Flame Atomic Absorption Spectrometry**

Fırat M., Fındıkoğlu M. S., Kafa B., Yazıcı E., Yolcu M., Büyükpınar Ç., Chormey D. S., Sel S., Turak F., Bakırdere S.

10th Aegean Analytical Chemistry Days, Çanakkale, Turkey, 29 September - 02 October 2016, pp.107, (Summary Text)

**CVIII. Development of an Analytical Method for the Determination of Valsartan in Commercial Drug and Sewage Sludge Samples by HPLC, and Evaluation of its Stability under Simulated Gastric System**

SERBEST H., BAKIRDERE S., KEYF S.

10th Aegean Analytical Chemistry Days, Çanakkale, Turkey, 29 September - 02 October 2016, pp.3

**CIX. Optimization of a Closed Batch Vessel Hydride Generation Atomic Absorption Spectrometry Method for the Determination of Lead in Drinking and Waste Water Samples at Trace Levels**

BAKIRDERE S., Chormey D. S., Büyükpınar Ç., SAN N., KEYF S.

10th Aegean Analytical Chemistry Days, Çanakkale, Turkey, 29 September - 02 October 2016, pp.32

**CX. Development of an Analytical Method for the Determination of Amoxicillin in Commercial Drugs and Wastewater Samples, and Assessing its Stability in Simulated Gastric Digestion**

Unutkan T., Koçoğlu E. S., Bakırdere S., Keyf S.

10th Aegean Analytical Chemistry Days, Çanakkale, Turkey, 29 September - 02 October 2016, pp.21

- CXI. **SERTRALİNİN GC-MS SİSTEMİNDE DÜŞÜK SEVİYELERDE TAYİNİNE YÖNELİK ANALİTİK YÖNTEM GELİŞTİRİLMESİ VE YAPAY MİDE ORTAMINDAKİ KARARLILIĞININ TESPİT EDİLMESİ**  
Koçoğlu E. S., Bakırdere S., Keyf S.  
EsAn-2016, IV. ESER ANALİZ KONGRESİ, Sakarya, Turkey, 19 - 22 May 2016, pp.65
- CXII. **Çevre Örneklerinde Cr(III) Ve Cr(VI) Türlerinin IC-ICP-MS Sisteminde Eser Seviyelerde Eşzamanlı Tayinleri**  
Sel S., Erulaş F., Turak F., Göksu R., Bakırdere S.  
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- CXIII. **Determination of Radiation Shielding and Dielectric Properties on Sodium Silicate/Tungsten Glass Structure**  
Kılıç M., Karabul Y., Alkan Ü., Okutan M., Bakırdere S., İçelli O.  
2nd International Conference on Organic Electronic Material Technologies (OEMT-2016), Çanakkale, Turkey, 17 May 2016, pp.102
- CXIV. **Magnetic Field Effect on Electrical Properties of Conducting PANI/Cu Composites**  
Karabul Y., Kılıç M., Okutan M., Bakırdere S., İçelli O.  
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- CXV. **Quorum Quenching For Biofilm Formation Prevention**  
NOUHA B., ENGİN G., SARI ERKAN H., DOTSE SELALİ C., BAKIRDERE S.  
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- CXVI. **The Study of the Electron Densities of Some Food Products for Different Drying Technics**  
NUROĞLU E., BAKIRDERE S., İÇELLİ O.  
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- CXVII. **The study of electron densities of some food products for different drying technics**  
Nuroğlu E., Bakırdere S., İçelli O.  
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- CXVIII. **Correlation between ratio of Na/K, Se/Zn, K/P, Cu/Zn, Se/Fe, Ca/P at breast cancer patients' blood samples which exposed to radiation and their electron density**  
Toker O., Karabul Y., Bursalıoğlu E., Bakırdere S., İçelli O., Sarıbal D.  
International Physics Conference at the Anatolian Peak, Erzurum, Turkey, 25 - 27 February 2016, pp.294
- CXIX. **Seltuğ D Bakırdere S Turgay N Ö Büyükpınar Ç Akdeniz İ Aksakal B Türk Makam Müziğinde Taş Plakların Rolü Plakların Fiziksel Kimyasal Analizleri ve Sonuçların Ses Kalitesiyle İlişkisi 29 31 Mayıs 2015 Elazığ**  
SELTUĞ D., BAKIRDERE S., TURGAY N. Ö., BÜYÜKPINAR Ç., AKDENİZ İ., AKSAKAL B.  
XIV. Ulusal Spektroskopi Kongresi, Elazığ, Turkey, 29 - 31 May 2015
- CXX. **Türk Makam Müziğinde Taş Plakların Rolü, Plakların Fiziksel/Kimyasal Analizleri ve Sonuçların Ses Kalitesiyle İlişkisi**  
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- CXXI. **Comparison of EDCs Removal in Full and Pilot Scale Membrane Bioreactor Plants: Effect of flux rate on EDCs removal in short SRT**  
Komesli O. T., Muz M., Sönmez S., Bakırdere S., Gökçay C. F.  
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- CXXII. **İçme sularındaki eser miktardaki bakır tayini için yeni bir yöntem**  
Güneri A., Aydın I., Bakırdere S., Aydın F., Ataman O. Y.  
III. Eser Analiz Çalıştayı, Tokat, Turkey, 15 - 18 May 2014, pp.108, (Summary Text)
- CXXIII. **Su örneklerinde bulunan arsenik, kadmiyum ve kurşunun optimize edilmiş Pd-Mg ve Ni matriks**

**modifierli grafit fırınlı atomik absorpsiyon spektrofotometre sistemi ile eser seviyelerdeki tayinleri**

Bakırdere S., Yaroğlu T., Tırık N., Demiröz M., Fidan A. K., Marulda O., Karaca A.

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**CXXIV. Characterization of limestone figurines from Datça-Emecik bu using rare earth elements**

Muşkara Ü., Bakırdere S., Tuna N., Ataman O. Y.

8th Eagean Analytical Chemistry Days, İzmir, Turkey, 16 - 20 September 2012

**CXXV. In situ atom trapping of Bi on W coated Slotted Quartz Tube Atomic Absorption Spectrometry**

Kılınç E., Aydın F., Bakırdere S., Ataman O. Y.

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**CXXVI. Atık su arıtma tesislerinden alınan su örneklerinde doğal hormonların ve endokrin bozucu maddelerin katı faz ekstraksiyonundan sonra LC-ESI-MS/MS sistemi ile eşzamanlı tayinleri**

Muz M., Sönmez M. S., Komesli O. T., Bakırdere S., Gökçay C. F.

VI. Ulusal Analitik Kimya Kongresi, Hatay, Turkey, 3 - 07 September 2012, pp.32, (Summary Text)

**CXXVII. Inorganik antimony speciation using tungsten coil atom trap and Hydride Generation Atomic Absorption Spectrometry**

Akay P., Yıldırım E., Arslan Y., Bakırdere S., Ataman O. Y.

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BAKIRDERE S., Project Supported by Higher Education Institutions, İlaç Aktif Maddelerinin Kararlılık Seviyelerinin HPLC Cihaz İle Tayinleri, 2015 - 2017

Keyf S., Unutkan Gösterişli T., Bakırdere S., Project Supported by Higher Education Institutions, Antibiyotiklerdeki aktif maddelerin Yüksek Basınçlı Sıvı Kromatografi (HPLC) metoduyla tayin edilmesi, 2014 - 2017

Bakırdere S., Komesli O. T., TUBITAK Project, Klasik Atıksu Arıtma Tesislerinde ve Membran Biyoreaktör (MBR) Sistemlerinde Endokrin Bozucu Maddelerin (EBM) Arıtımı ve Toptan EBM Parametresi Geliştirilme Projesi, 2009 - 2012

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BAKIRDERE S., Bor Mineralinin İnsanda Erkek Fertilitesi ve Prostat Kanseri Etkisinin Belirlenmesi, 2005 - 2007

BAKIRDERE S., İnsanların Bir Günde Aldıkları Bor Miktarının Saptanması ve Bunun İnsan Sağlığına Etkisinin Belirlenmesi, 2004 - 2006

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: 609  
Citation (WoS): 1943  
Citation (Scopus): 4324  
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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## Non Academic Experience

National Research Center, Canada, Researcher