

## Prof. Sezgin BAKIRDERE

### Personal Information

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### International Researcher IDs

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### Education Information

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 Titles / Tasks

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

## Advising 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

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

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

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

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

Keyf S., Bakırdere S., Amoksisilin 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. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **Determination of trace amounts of metobromuron herbicide residues in fruits by QuEChERS and**

#### **DLLME methods**

Oflu S., Zaman B. T., Kılınç Y., Bakırdere S., Turak F.

Journal of Food Composition and Analysis, vol.133, 2024 (SCI-Expanded)

- VII. **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)
- VIII. **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)
- IX. **Efficient removal of estrone and 17 $\beta$ -estradiol from aqueous medium using UV irradiation-assisted fenton process**  
Dikmen Y., Şaylan M., Oflu S., Ayyıldız M. F., Serbest H., DALGIÇ BOZYİĞİT G., BAKIRDERE S.  
Chemical Papers, vol.78, no.13, pp.7477-7486, 2024 (SCI-Expanded)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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., Özyayın E., Gülhan Bakırdere E., BAKIRDERE S.  
Food Chemistry, vol.439, 2024 (SCI-Expanded)

- XIX. **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. E., Ayan G. N., Bodur S., GÜNKARA Ö. T., BAKIRDERE S.  
Environmental Monitoring and Assessment, vol.196, no.5, 2024 (SCI-Expanded)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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.  
Analytical Methods, vol.16, no.9, pp.1363-1370, 2024 (SCI-Expanded)
- XXVI. **Detection of copper in boiled water samples from traditional coffee pots by applying deep eutectic solvent-assisted reduced graphene oxide-coated magnetic nanocomposite-based microextraction strategy**  
KASA N. A., Zeytinci N. K., Aydın B. N., BAKIRDERE S.  
Chemical Papers, vol.78, no.4, pp.2185-2192, 2024 (SCI-Expanded)
- XXVII. **Deep eutectic solvents for the determination of endocrine disrupting chemicals**  
Chormey D. S., Zaman B. T., Kustanto T. B., ERARPAT BODUR S., Bodur S., Er E. Ö., BAKIRDERE S.  
Talanta, vol.268, 2024 (SCI-Expanded)
- XXVIII. **Dual techniques for trace copper determination: DES/Dithizone based liquid phase microextraction-flame atomic absorption spectrophotometry and digital image based colorimetric probe**  
Kilinç Y., Zaman B. T., BAKIRDERE S., Özdoğan N.  
Food Chemistry, vol.432, 2024 (SCI-Expanded)
- XXIX. **Determination of Thallium in Tea with Preconcentration by Microwave-Assisted Synthesized Molybdenum Disulfide Nanoparticles and Flame Atomic Absorption Spectrometry (FAAS) Analysis**  
Tışlı B., Gösterişli T., BAKIRDERE S.  
Analytical Letters, vol.57, no.11, pp.1715-1726, 2024 (SCI-Expanded)
- XXX. **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, 2024 (SCI-Expanded)

- XXXI. **Removal of two antidepressant active pharmaceutical ingredients from hospital wastewater by polystyrene-coated magnetite nanoparticles-assisted batch adsorption process**  
DALGIÇ BOZYİĞİT G., Zaman B. T., ÖZDEMİR O. K., Kılınç Y., Chormey D. S., BAKIRDERE S., ENGIN G.  
Environmental Monitoring and Assessment, vol.196, no.1, 2024 (SCI-Expanded)
- XXXII. **Ultraviolet-assisted Fenton digestion of peach juice for the determination of nickel by flame atomic absorption spectrometry (FAAS)**  
Ayyıldız M. F., Şaylan M., Yazıcı E., Chormey D. S., BAKIRDERE S.  
Analytical Letters, vol.57, no.13, pp.2170-2181, 2024 (SCI-Expanded)
- XXXIII. **Microwave-assisted hydrothermal green synthesis of selenium nanoparticles incorporated with hyaluronic acid methacrylate/gelatin methacrylate hydrogels for wound healing applications**  
Nejati O., Tışlı B., Yaşayan G., Zaman B. T., Torkay G., Dönmez M., Kayın İ., BAKIRDERE S., Bal-Öztürk A.  
Polymer Engineering and Science, vol.64, no.1, pp.316-327, 2024 (SCI-Expanded)
- XXXIV. **Introduction for the 12th Aegean Analytical Chemistry Days (AACD 2023) Conference Special Issue in Analytical Letters**  
BAKIRDERE S.  
Analytical Letters, 2024 (SCI-Expanded)
- XXXV. **Development of Analytical Strategy for the Determination of Cadmium by Flame Atomic Absorption Spectrometry After Dithizone/Deep Eutectic Solvent Probe Based Liquid Phase Microextraction**  
Akbiyik H., Serbes H., Kılınç Y., Ofu S., Gürsoy S., Özdoğan N., ÇETİN G., BAKIRDERE S.  
Analytical Letters, 2024 (SCI-Expanded)
- XXXVI. **Simultaneous complexation and extraction of manganese in melissa tea sample by deep eutectic solvent based liquid phase microextraction**  
Bayraktar A., ERARPAT S., Diridiri P. N., Kuşat K., BAKIRDERE S.  
Journal of Food Composition and Analysis, vol.125, 2024 (SCI-Expanded)
- XXXVII. **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, 2024 (SCI-Expanded)
- XXXVIII. **A simple microwave-assisted synthesis of cobalt ferrite nanoparticles and its application for the determination of lead ions in rooibos (*Aspalathus linearis*) tea**  
Ayyıldız M. F., Karaman D. N., Kartoğlu B., Şaylan M., Chormey D. S., BAKIRDERE S.  
Food Chemistry, vol.429, 2023 (SCI-Expanded)
- XXXIX. **Development of an analytical strategy for the determination of trace lead in hibiscus tea extract by double slotted quartz tube assisted flame atomic absorption spectrometry after manganese ferrite based dispersive solid phase extraction**  
Nur Karaman D., Serbest H., Bahçivan A., POLAT KORKUNÇ Ü., BAKIRDERE S.  
Microchemical Journal, vol.195, 2023 (SCI-Expanded)
- XL. **Biogenic synthesis of novel nanomaterials and their applications**  
Chormey D. S., Zaman B. T., Borahan Kustanto T., ERARPAT BODUR S., Bodur S., Tekin Z., Nejati O., BAKIRDERE S.  
Nanoscale, vol.15, no.48, pp.19423-19447, 2023 (SCI-Expanded)
- XLI. **Smartphone digital image colorimetry combined with dispersive solid-phase microextraction for the determination of boron in food samples**  
Caleb J., Alshana U., ERTAŞ N., BAKIRDERE S.  
Food Chemistry, vol.426, 2023 (SCI-Expanded)
- XLII. **Combination of smartphone digital image colorimetry and UV-Vis spectrophotometry as detection systems with solidified floating organic drop microextraction as preconcentration method for the quantification of methyl red in wastewater samples**  
Bombom M., Girgin A., Zaman B. T., TURAK F., BAKIRDERE S.

Turkish Journal of Chemistry, vol.47, no.5, pp.1075-1084, 2023 (SCI-Expanded)

- XLIII. **Analytical application of flower-shaped nickel nanomaterial for the preconcentration of manganese in domestic wastewater samples**  
Aydn E. S., Zaman B. T., DALGIÇ BOZYİĞİT G., BAKIRDERE S.  
Environmental Monitoring and Assessment, vol.195, no.11, 2023 (SCI-Expanded)
- XLIV. **Cadmium determination at trace levels in lake water samples by cold vapor generation-atomic absorption spectrometry after magnetic dispersive solid phase extraction**  
Bodur S., ERARPAT S., Kayın İ., BAKIRDERE S.  
Chemical Papers, vol.77, no.11, pp.6629-6636, 2023 (SCI-Expanded)
- XLV. **Spray assisted preconcentration method combined with HPLC – Continuous flow hydride generation – FAAS for inorganic arsenic speciation in olive oil samples**  
Bodur S., ERARPAT S., Tutar O. F., BAKIRDERE S.  
Journal of Food Composition and Analysis, vol.123, 2023 (SCI-Expanded)
- XLVI. **T-cut slotted quartz tube-atom trap strategy for the on-line preconcentration of thallium in well water samples**  
Bombom M., Zaman B. T., DALGIÇ BOZYİĞİT G., Şaylan M., Bayraktar A., ARVAS B., YOLAÇAN Ç., BAKIRDERE S.  
Measurement: Journal of the International Measurement Confederation, vol.220, 2023 (SCI-Expanded)
- XLVII. **A powerful combination of liquid chromatography-triple quadrupole mass spectrometry and quadruple isotope dilution strategy for the determination of fenuron at trace levels in river water, stream water and fruit juice samples**  
Bodur S., ERARPAT S., GÜNKARA Ö. T., BAKIRDERE S.  
Journal of Food Composition and Analysis, vol.123, 2023 (SCI-Expanded)
- XLVIII. **Colorimetric Sensor Based AgNPs for the Detection of Cyanide using UV-Vis Spectrophotometry**  
Girgin A., Akbıyık H., Zaman B. T., ÇETİN G., BAKIRDERE S.  
ChemistrySelect, vol.8, no.33, 2023 (SCI-Expanded)
- XLIX. **Quantification of trace fenuron in waste water samples by matrix matching calibration strategy and gas chromatography-mass spectrometry after simultaneous derivatization and preconcentration**  
Ofly S., ERARPAT S., Zaman B. T., Eroğlu K., GÜNKARA Ö. T., BAKIRDERE S., TURAK F.  
Environmental Monitoring and Assessment, vol.195, no.9, 2023 (SCI-Expanded)
- L. **Trace cadmium determination in lake water matrix by flame atomic absorption spectrometry after manganese ferrite magnetic nanoparticles-based dispersive solid phase extraction**  
Karaman D. N., Serbest H., Kiliç Y., Demirel R., BAKIRDERE S.  
Clean - Soil, Air, Water, vol.51, no.9, 2023 (SCI-Expanded)
- LI. **Novel data on genotoxic assessment of bismuth sulfide nanoflowers in common carp *Cyprinus carpio***  
Ergenler A., Turan F., Zaman B. T., Tezgin E., BAKIRDERE S., Depci T.  
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- CCI. **Analytical protocol for determination of endosulfan beta, propham, 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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- CCIII. **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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- CCIV. **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**  
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- CCV. **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**  
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- CCVI. **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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- CCVII. **Validation of ultrasonic-assisted switchable solvent liquid phase microextraction for trace determination of hormones and organochlorine pesticides by GC–MS and combination with QuEChERS**  
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- CCVIII. **A sieve-conducted two-syringe-based pressurized liquid-phase microextraction for the determination of indium by slotted quartz tube-flame atomic absorption spectrometry**  
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- CCIX. **Determination of fenazaquin in water and tomato matrices by GC-MS after a combined QuEChERS and switchable solvent liquid phase microextraction**  
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- CCX. **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**  
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- CCXI. **Accurate and Precise Determination of Gold in Plating Bath Solution: Deep Eutectic Solvent Based Liquid Phase Microextraction–Slotted Quartz Tube–Flame Atomic Absorption Spectrometry**  
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Analytical Letters, vol.53, no.2, pp.165-173, 2020 (SCI-Expanded)
- CCXII. **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**  
Zaman B. T., Erulaş A. F., Chormey D. S., BAKIRDERE S.

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- CCXIII. **Determination of indium in lettuce samples using hydrogen supported-T-cut-slotted quartz tube-atom trap-flame atomic absorption spectrometry**  
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- CCXV. **Rapid, accurate and sensitive determination of fenprothrin as insecticide in dried strawberry samples by high performance liquid chromatography, and in vivo stability and behavior under gastric conditions**  
Tekin Z., Zaman B. T., BAKIRDERE S.  
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- CCXVI. **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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- CCXVII. **Determination of Trace Element Concentrations in Blood Samples and Their Correlation to Breast Cancer**  
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- CCXIX. **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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- CCXX. **Optimization of atrazine removal from synthetic groundwater by electrooxidation process using titanium dioxide and graphite electrodes**  
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- CCXXI. **Removal of Heavy Metals by a Membrane Bioreactor Combined with Activated Carbon**  
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- CCXXII. **An analytical strategy for propoxur determination in raisin samples with matrix matching method after dispersive liquid-liquid microextraction**  
Borahan T., Tekin Z., Zaman B. T., Chormey D. S., BAKIRDERE S.  
Journal of Food Composition and Analysis, vol.84, 2019 (SCI-Expanded)
- CCXXIII. **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**  
Chormey D. S., Akkaya E., Erulaş F. A., BAKIRDERE S.  
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- CCXXIV. **Determination of cadmium at trace levels in parsley samples by slotted quartz tube-flame atomic absorption spectrometry after preconcentration with cloud point extraction**  
Kasa N. A., Sel S., Chormey D. S., BAKIRDERE S.  
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- CCXXV. **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.  
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- CCXXVI. **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.  
FOOD CHEMISTRY, vol.299, 2019 (SCI-Expanded)
- CCXXVII. **Determination of endocrine disruptive phenolic compounds by gas chromatography mass spectrometry after multivariate optimization of switchable liquid-liquid microextraction and assessment of green profile**  
Karayaka S., Chormey D. S., Fırat M., BAKIRDERE S.  
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- CCXXVIII. **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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- CCXXIX. **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**  
Tekin Z., Er E. O., BAKIRDERE S.  
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- CCXXX. **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**  
Koçoğlu E. S., Sözüdoğru O., Komesli O. T., Yılmaz A. E., Bakırdere S.  
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- CCXXXI. **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**  
Alacakoç B., Tekin Z., UNUTKAN T., ÇETİN G., BAKIRDERE S.  
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- CCXXXII. **Determination of micropollutants in wastewater matrix using gas chromatography-mass spectrometry after optimization of dispersive liquid-liquid microextraction**  
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- CCXXXIII. **Radiation interaction parameters for blood samples of breast cancer patients: an MCNP study**  
Toker O., Caglar M., Öz E., Bakırdere S., Topdağı Ö., Eyecioglu O., İçelli O.  
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- CCXXXIV. **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.**  
Aylin K., Sel S., Özkan B., Bakırdere S.  
Environmental monitoring and assessment, vol.191, pp.692, 2019 (SCI-Expanded)
- CCXXXV. **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**  
Fırat M., Chormey D. S., Bakırdere S., Turak F.  
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- CCXXXVI. **Binary dispersive liquid-liquid microextraction strategy for accurate and precise determination of**

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Sarı Erkan H., Chormey D. S., Çağlak A., Dalgıç Bozyiğit G., Maltepe E., Engin G., Bakırdere S.

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- CCXXXVII. **Determination of butyltin compounds in fish and mussel samples at trace levels by vortex assisted dispersive liquid-liquid microextraction-gas chromatography mass spectrometry**  
Erarpat S., Bodur S., Öz E., Bakırdere S.  
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.82, 2019 (SCI-Expanded)
- CCXXXVIII. **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)**  
Yılmaz P., Öztürk Er E., Bakırdere S., Ülgen Ş. K., Özbek B.  
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- CCXXXIX. **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**  
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FOOD CHEMISTRY, vol.286, pp.500-505, 2019 (SCI-Expanded)
- CCXL. **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**  
Kapukıran F., Fırat M., Chormey D. S., BAKIRDERE S., Özdoğan N.  
Bulletin of Environmental Contamination and Toxicology, vol.102, no.6, pp.848-853, 2019 (SCI-Expanded)
- CCXLI. **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)
- CCXLII. **Development of an analytical method based on citric acid coated magnetite nanoparticles assisted dispersive magnetic solid-phase extraction for the enrichment and extraction of sildenafil, tadalafil, vardenafil and avanafil in human plasma and urine prior to determination by LC-MS/MS**  
Er E., Akkaya E., Özbek B., Bakırdere S.  
Microchemical Journal, vol.147, pp.269-276, 2019 (SCI-Expanded)
- CCXLIII. **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**  
büyükpınar C., SAN N., KOMESLİ O. T., bakırdere S.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.191, no.5, 2019 (SCI-Expanded)
- CCXLIV. **Simultaneous determination of 4-tert-octylphenol, chlorpyrifos-ethyl and penconazole by GC-MS after sensitive and selective preconcentration with stearic acid coated magnetic nanoparticles**  
Akkaya E., Bozyiğit G., BAKIRDERE S.  
MICROCHEMICAL JOURNAL, vol.146, pp.1190-1194, 2019 (SCI-Expanded)
- CCXLV. **Ultrasound-assisted dispersive solid phase extraction based on Fe<sub>3</sub>O<sub>4</sub>/reduced graphene oxide nanocomposites for the determination of 4-tert octylphenol and atrazine by gas chromatography mass spectrometry**  
Er E., ÇAĞLAK A., Engin G., BAKIRDERE S.  
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- CCXLVI. **Ultrasound assisted deep eutectic solvent based microextraction-slotted quartz tube-flame atomic absorption spectrometry for the determination of cadmium**  
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SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, vol.155, pp.1-3, 2019 (SCI-Expanded)
- CCXLVII. **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)**



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- CCXLVIII. **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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- CCXLIX. **Evaluation of magnetic field assisted sun drying of food samples on drying time and mycotoxin production**  
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- CCL. **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**  
Özkan B. Ç., Fırat M., Chormey D. S., BAKIRDERE S.  
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- CCLI. **Simultaneous Determination of Chromium Species in Water and Plant Samples at Trace Levels by Ion Chromatography-Inductively Coupled Plasma-Mass Spectrometry**  
Sel S., Erulaş A. F., Turak F., Bakirdere S.  
ANALYTICAL LETTERS, vol.52, no.5, pp.761-771, 2019 (SCI-Expanded)
- CCLII. **Determination of Bismuth in Bottled 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., BÜYÜKPINAR Ç., BAKIRDERE S.  
ANALYTICAL LETTERS, vol.52, no.3, pp.539-548, 2019 (SCI-Expanded)
- CCLIII. **A rapid and sensitive reversed phase-HPLC method for simultaneous determination of ibuprofen and paracetamol in drug samples and their behaviors in simulated gastric conditions**  
Borahan T., UNUTKAN T., Şahin A., BAKIRDERE S.  
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- CCLIV. **Accurate and Sensitive Analytical Strategy for the Determination of Antimony: Hydrogen Assisted T-Shaped Slotted Quartz Tube-Atom Trap-Flame Atomic Absorption Spectrometry**  
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- CCLV. **Switchable solvent liquid-phase microextraction-gas chromatography-quadrupole isotope dilution mass spectrometry for the determination of 4-n-nonylphenol in municipal wastewater**  
ERARPAT S., Bodur S., Chormey D. S., BAKIRDERE S.  
Microchemical Journal, vol.144, pp.1-5, 2019 (SCI-Expanded)
- CCLVI. **Determination of Se, Cr, Mn, Zn, Co, Na, and K in Blood Samples of Breast Cancer Patients to Investigate Their Variation Using ICP-MS and ICP-OES**  
Toker O., Topdağı Ö., Bakirdere S., Bursalioglu E. O., Öz E., Eyecoglu O., Karabul Y., Çağlar M., İçelli O.  
ATOMIC SPECTROSCOPY, vol.40, pp.11-16, 2019 (SCI-Expanded)
- CCLVII. **Accurate and sensitive determination of sildenafil, tadalafil, vardenafil, and avanafil in illicit erectile dysfunction medications and human urine by LC with quadrupole-TOF-MS/MS and their behaviors in simulated gastric conditions**  
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- CCLVIII. **Trace level determination of cadmium in different water matrices and rose hip tea sample by dispersive liquid-liquid microextraction slotted quartz tube flame atomic absorption spectrometry after complexation with a new imidazole-based ligand**  
Yazici E., Fırat M., Chormey D. S., Budak T. B., Sahin Ç., TURAK F., BAKIRDERE S.  
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- CCLIX. **A novel analytical method for the determination of cadmium in sorrel and rocket plants at ultratrace levels: Magnetic chitosan hydrogels based solid phase microextraction-slotted quartz tube-flame**

**atomic absorption spectrophotometry**

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- CCLX. **Accurate determination of pesticides, hormones and endocrine disruptor compounds in complex environmental samples using matrix dilution and matrix matching with dispersive liquid-liquid microextraction**  
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- CCLXI. **Multivariate Optimization of Binary Solvent Microextraction for the Simultaneous Determination of Endocrine Disruptive Phenolic Compounds and Organochlorine Pesticides in Wastewater and Sludge Samples by GC-MS**  
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- CCLXII. **Simultaneous determination of iprodione, procymidone, and chlorflurenol in lake water and wastewater matrices by GC-MS after multivariate optimization of binary dispersive liquid-liquid microextraction**  
Ozdogan N., Kapukiran F., MUTLUOGLU G., Chormey D. S., BAKIRDERE S.  
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- CCLXIII. **A new combination for the determination of ultratrace cadmium: 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., Cetin G., BAKIRDERE S.  
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- CCLXIV. **Sensitive determination of cadmium in lake water, municipal wastewater and onion samples by slotted quartz tube-flame atomic absorption spectrometry after preconcentration with microextraction strategy**  
KAFA E. B., Fırat M., Chormey D. S., TURAK F., BAKIRDERE S.  
MEASUREMENT, vol.125, pp.219-223, 2018 (SCI-Expanded)
- CCLXV. **Simultaneous Determination of Phorate and Oxyfluorfen in Well Water Samples with High Accuracy by GC-MS After Binary Dispersive Liquid-Liquid Microextraction**  
Alkan E., Kapukiran F., Er E., Chormey D. S., Keyf S., Ozdogan N., Bakırdere S.  
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- CCLXVI. **Development of a sensitive analytical method for the determination of cadmium using hydrogen assisted T-shape slotted quartz tube-atom trap-flame atomic absorption spectrophotometry**  
Şahin I., Buyukpınar C., SAN N., BAKIRDERE S.  
SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, vol.147, pp.9-12, 2018 (SCI-Expanded)
- CCLXVII. **Determination of indium using vortex assisted solid phase microextraction based on oleic acid coated magnetic nanoparticles combined with slotted quartz tube-flame atomic absorption spectrometry**  
Celik B., Akkaya E., BAKIRDERE S., Aydin F.  
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- CCLXVIII. **Trace determination of nickel in water samples by slotted quartz tube-flame atomic absorption spectrometry after dispersive assisted simultaneous complexation and extraction strategy**  
Özzyeybek G., Alacakoç B., Kocabas M. Y., BAKIRDERE E. G., Chormey D. S., BAKIRDERE S.  
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- CCLXIX. **A sensitive and selective analytical method for the simultaneous determination of sildenafil and tadalafil in water, energy drinks and sewage sludge matrices by LC-QTOF-MS/MS**  
Er E., Özbek B., Bakırdere S.  
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- CCLXX. **Selenium speciation in chicken breast samples from inorganic and organic selenium fed chickens using high performance liquid chromatography-inductively coupled plasma-mass spectrometry**

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- CCLXXII. **Accurate and sensitive determination of selected hormones, endocrine disruptors, and pesticides by gas chromatography-mass spectrometry after the multivariate optimization of switchable solvent liquid-phase microextraction**  
Chormey D. S., Bodur S., Baskın D., Fırat M., Bakırdere S.  
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- CCLXXIII. **Development of an efficient and sensitive analytical method for the determination of copper at trace levels by slotted quartz tube atomic absorption spectrometry after vortex-assisted dispersive liquid-liquid microextraction in biota and water samples using a novel ligand**  
Zaman B. T., Bakırdere E. G., Kasa N. A., Deniz S., Sel S., Chormey D. S., Bakırdere S.  
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.190, 2018 (SCI-Expanded)
- CCLXXIV. **Vortex-assisted switchable liquid-liquid microextraction for the preconcentration of cadmium in environmental samples prior to its determination with flame atomic absorption spectrometry**  
Fırat M., Bodur S., Tışlı B., Özlü C., Chormey D. S., TURAK F., BAKIRDERE S.  
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- CCLXXV. **Analysis of some physical, chemical and microbiological aspects of honey samples produced and consumed in Turkey**  
BAKIRDERE S., Yaroglu T., Tirik N., Demiroz M., Karaca A.  
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### Refereed Congress / Symposium Publications in Proceedings

- I. **Mikroalga Destekli Hidrotermal Sentez Yöntemi Elde Edilen Çinko-Kalay Nanoçiçekler Kullanılarak Kesikli Tip Adsorpsiyon Esaslı Giderim Prosedürü ile Sentetik Atık Sudan Kadmiyum Elementinin Uzaklaştırılması**  
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- II. **VO<sub>2</sub>@ppy Nanomalzemelerin Mikroalga Esaslı Hidrotermal Yöntem İle Sentezi Ve Kadmiyum Elementinin Atıksu Matrisinden Gideriminde Kullanılması**  
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Unutkan T., Koçoğlu E. S., Bakırdere S., Keyf S.  
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- 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.  
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- CXII. **Çevre Örneklerinde Cr(III) Ve Cr(VI) Türlerinin IC-ICP-MS Sisteminde Eser Seviyelerde Eşzamanlı Tayinleri**  
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Kılıç M., Karabul Y., Alkan Ü., Okutan M., Bakırdere S., İçelli O.

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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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Toker O., Karabul Y., Bursahoğlu E., Bakırdere S., İçelli O., Sarıbal D.

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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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XIV. Ulusal Spektroskopi Kongresi, Elazığ, Turkey, 29 - 31 May 2015

**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

**CXXIII. Su örneklerinde bulunan arsenik, kadmiyum ve kurşunun optimize edilmiş Pd-Mg ve Ni matriks modifiyerli grafit fırınlı atomik absorpsiyon spektrofotometre sistemi ile eser seviyelerdeki tayinleri**

Bakırdere S., Yaroğlu T., Tırık N., Demiröz M., Fidan A. K., Maruldağ 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.

3rd PAK-TURK Conference on Chemical Sciences, Bursa, Turkey, 13 - 15 September 2012, pp.57

**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.

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- 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.  
XII. Ulusal Spektroskopi Kongresi, Antalya, Turkey, 18 - 22 May 2011, pp.19
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Bora S., Evcimen İ., Bakırdere S., Ataman O. Y.  
XII. Ulusal Spektroskopi Kongresi, Antalya, Turkey, 18 - 22 May 2011
- CXXIX. **ICPMS ile prostat kanserli doku örneklerinde selenyum ve kadmiyum tayini**  
Şenol F., Çelen İ., Müezzinoğlu T., Ataman O. Y., Bakırdere S., Korkmaz M., Neşe N., Lekili M.  
XII. Ulusal Spektroskopi Kongresi, Antalya, Turkey, 18 - 22 May 2011
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Kılınç E., Bakırdere S., Aydın F., Ataman O. Y.  
XII. Ulusal Spektroskopi Kongresi, Antalya, Turkey, 18 - 22 May 2011, pp.9
- CXXXI. **Determination of As, Cd and Se in Anatolian spices by inductively coupled plasma mass-spectrometry**  
Şenol F., Bakırdere S., Aydın F., Ataman O. Y.  
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- CXXXII. **Tellurium speciation using hydride generation atomic absorption spectrometry and In-Situ graphite cuvette trapping**  
Yıldırım E., Akay P., Arslan Y., Bakırdere S., Ataman O. Y.  
7th Aegean Analytical Chemistry Days, Mitilini, Greece, 29 September - 03 October 2010, pp.33
- CXXXIII. **Boron determination in human blood by ICP-MS**  
Bora S., Bakırdere S., Ataman O. Y.  
7th Aegean Analytical Chemistry Days, Mitilini, Greece, 29 September - 03 October 2010, pp.73
- CXXXIV. **Determination of thiols in biological samples using HPLC-ICP-MS and HPLC-Orbitrap MS**  
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5. Ulusal Analitik Kimya Kongresi, Erzurum, Turkey, 21 - 25 June 2010, pp.50
- CXXXV. **Hava filtresi örneklerinde ICP-OES ile bor tayini**  
Yıldırım E., Bora S., Arslan Y., Bakırdere S., Ataman O. Y.  
5. Ulusal Analitik Kimya Kongresi, Erzurum, Turkey, 21 - 25 June 2010, pp.118
- CXXXVI. **Semen örneklerinde ICP-MS ile bor tayini**  
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Yıldıran A., Bakırdere S., Ataman O. Y.  
5th Black Sea Basin Conference on Analytical Chemistry, Ordu, Turkey, 23 - 26 September 2009, pp.50
- CXXXVIII. **Interference studies for lead determination by Ta coated slotted tube-atom trap-flame atomic absorption spectrometry**  
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5th Black Sea Basin Conference on Analytical Chemistry, Ordu, Turkey, 23 - 26 September 2009, pp.52
- CXXXIX. **Determination of lead by in-situ graphite cuvette trapping hydride generation atomic absorption spectrometry**  
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- CXL. **Determination of bismuth using hydride generation-W-Trap-ICPMS**  
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- CXLI. **HPLC-ICPMS ile selenyum türleme çalışmaları**  
Bakırdere S., Volkan M., Ataman O. Y.  
XI. Ulusal Spektroskopi Kongresi, Ankara, Turkey, 23 - 26 June 2009, pp.33
- CXLII. **Kolay iyonlaşan elementlerin ICPMS ile arsenik tayininde girişim etkileri**

Özcan Ş., Şenol F., Bakırdere S., Ataman O. Y.

XI. Ulusal Spektroskopi Kongresi, Ankara, Turkey, 23 - 26 June 2009, pp.75

**CXLIII. Bor elementinin erkeklerde prostat büyüklüğü ve alt üriner sistem septomlarına etkisi**

Müezzinoğlu T., Korkmaz M., Çelen İ., Ataman O. Y., Bora S., Bakırdere S., Lekili M., Keskin S.

XI. Ulusal Spektroskopi Kongresi, Ankara, Turkey, 23 - 26 June 2009, pp.80

**CXLIV. İdrar örneklerinde ICP-OES ile bor tayini**

Ataman S., Karaman G., Bora S., Akay P., Arslan Y., Bakırdere S., Korkmaz M., Ataman O. Y.

XI. Ulusal Spektroskopi Kongresi, Ankara, Turkey, 23 - 26 June 2009, pp.81

**CXLV. Gıda örneklerinde ICPMS ile bor tayini**

Karaman G., Atakol A., Bora S., Njie N., Yıldırım E., Bakırdere S., Ataman O. Y.

XI. Ulusal Spektroskopi Kongresi, Ankara, Turkey, 23 - 26 June 2009, pp.77

**CXLVI. Elektrokimyasal hidrür oluşturma ve tungsten atom tuzaklı atomik absorpsiyon spektrometri ile antimon tayini**

Yıldıran A., Arı B., Bakırdere S., Ataman O. Y.

XI. Ulusal Spektroskopi Kongresi, Ankara, Turkey, 23 - 26 June 2009, pp.76

**CXLVII. Tantal kaplanmış yarıklı kuvars tüp atom tuzağı-alevli AAS ile kurşun tayini**

Demirtaş İ., Bakırdere S., Arslan Y., Ataman O. Y.

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**CXLVIII. Development of a sensitive analytical method for antimony determination using a Ta-Coated SQT and FAAS**

Tekbaş Z., Bakırdere S., Alp T. N., Arslan Y., Şenol F., Ataman O. Y.

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**CXLIX. Determination of gold concentration in ng mL<sup>-1</sup> levels by hydride generation atomic absorption spectrometry using a novel gas liquid separator and W-Coil Trap**

Gholami M., Arslan Y., Bakırdere S., Ataman O. Y.

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Bakırdere S., Volkan M., Eren M., Ataman O. Y.

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**CLII. Boron intakes in selected populations in Turkey and the US**

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Arı B., Bakırdere S., Ataman O. Y.

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**CLIV. Titanyum kaplanmış yarıklı kuvars tüp atom tuzağı-alevli AAS ile ng/ml düzeyinde kurşun tayini**

Bora S., Bakırdere S., Ataman O. Y.

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**CLV. Bor maden alanlarındaki içme sularında AE-HO-AAS kullanarak arsenik tayini**

Göçmen Ö., Bakırdere S., Korkmaz M., Altıntaş N., Ataman O. Y.

IV. Ulusal Analitik Kimya Kongresi, Elazığ, Turkey, 25 - 27 June 2008, pp.32

**CLVI. Bildircin yumurtalarında C18-HPLC-ICPMS sistemi ile organik selenyum türlerinin tayini**

Aksu S., Bakırdere S., Volkan M., Ataman O. Y.

IV. Ulusal Analitik Kimya Kongresi, Elazığ, Turkey, 25 - 27 June 2008, pp.39

**CLVII. Bor mineralinin prostat kanserine etkisinin belirlenmesi: Topluma dayalı çalışma**

Korkmaz M., Müezzinoğlu T., Lekili M., Neşe N., Bakırdere S., Arslan Y., Ataman O. Y.

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BAKIRDERE S., Project Supported by Higher Education Institutions, ESER ANALİZ VE TÜRLEME ÇALIŞMALARINDA KROMATOĞRAFİK YÖNTEMLER, 2015 - 2017  
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Chemistry and Ecology, SCI Journal, Continues

## Metrics

Publication: 583  
Citation (WoS): 1943  
Citation (Scopus): 4232  
H-Index (WoS): 23

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## 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

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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