

## Prof. Dr. Sezgin BAKIRDERE

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya, Türkiye 2004 - 2009

Yüksek Lisans, Fırat Üniversitesi, Fen Edebiyat Fakültesi, Kimya, Türkiye 2001 - 2003

Lisans, Fırat Üniversitesi, Fen-Edebiyat Fakültesi, Kimya, Türkiye 1997 - 2001

### Yabancı Diller

İngilizce, C1 İleri

### Yaptığı Tezler

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

Yüksek Lisans, Biyolojik ve Çevre Örneklerinde Kurşunun Zenginleştirilerek Atomik Absorpsiyon Spektrofotometresiyle Tayini, Fırat Üniversitesi, Fen Edebiyat Fakültesi, Kimya / Analitik Kimya, 2003

### Araştırma Alanları

Kimya, Analitik Kimya, Adsorpsiyon Spektroskopisi, Atomik Kütle Spektrometrisi, Atomik ve Moleküler Spektroskopisi, Kromatografi, Kütle Spektroskopisi, Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 2017 - Devam Ediyor

Doç. Dr., Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 2013 - 2017

Doç. Dr., Yıldız Teknik Üniversitesi, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Bölümü, 2012 - 2013

Yrd. Doç. Dr., Yıldız Teknik Üniversitesi, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Bölümü, 2012 - 2012

Araştırma Görevlisi Dr., Zonguldak Bülent Ecevit Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2010 - 2012

Araştırma Görevlisi Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 2009 - 2010

Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 2002 - 2009

## AKADEMİK İDARI DENEYİM

Dekan, Yıldız Teknik Üniversitesi, Uygulamalı Bilimler Fakültesi, 2017 - 2021

Uygulama ve Araştırma Merkezi Müdürü, Yıldız Teknik Üniversitesi, 2016 - 2020

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

## Yönetilen Tezler

- BAKIRDERE S., Alevli Atomik Absorpsiyon Spektrofotometre Cihaz Duyarlılığının Yarıkli Kuartz Tüp (YKT) ile Artırılması ve YKT İç Yüzeyinin Adsorpsiyon Özelliklerinin İncelenmesi, Doktora, Ç.Büyükpınar(Öğrenci), Devam Ediyor
- Bakırdere S., Özdoğan N., Farklı Analitlerin Önderiştirilmesinde Zirkonyum Nanopartiküllerin Kullanılması, Yüksek Lisans, Z.TEKİN(Öğrenci), Devam Ediyor
- Bakırdere S., Farklı Pestisit, Hormon ve İlaç Etken Madde Grubu Endokrin Bozucu Maddelerin Önderiştirilmesi Sonrası GC-MS Sisteminde Eser Seviyelerde Tayinleri, Doktora, E.Seda(Öğrenci), Devam Ediyor
- Bakırdere S., Balık Yağı Örneklerinde Bulunan Organik Analitlerin Ters Faz Dağıtıcı Sıvı-Sıvı Mikroekstraksiyon Stratejisi Kullanılarak Eser Seviyelerde Tayinleri, Yüksek Lisans, G.ÖZZEYBEK(Öğrenci), Devam Ediyor
- Bakırdere S., Uçucu Bileşen Oluşturma Alevli Atomik Absorpsiyon Sistemine Antimon Tayinine Yönelik Analitik Yöntem Geliştirme, Yüksek Lisans, E.YAZICI(Öğrenci), Devam Ediyor
- Bakırdere S., Türleme Çalışmalarında Tayin Limitlerinin Düşürülmesine Yönelik Analitik Yöntemlerin Geliştirilmesi, Yüksek Lisans, S.BODUR(Öğrenci), Devam Ediyor
- Bakırdere S., Poli Aromatik Hidrokarbonların Tayininde Yeni Analitik Stratejiler, Yüksek Lisans, M.Selin(Öğrenci), Devam Ediyor
- Bakırdere S., Nanokompozitler kullanılarak seçili mikrokirleticilerin çevre örneklerinde eser seviyelerde tayinleri, Yüksek Lisans, B.TIŞLI(Öğrenci), Devam Ediyor
- Bakırdere S., Combination of Microextraction Strategies and T-Shaped Quartz Tube to Lower the Detection Limits, Doktora, E.AKKAYA(Öğrenci), Devam Ediyor
- Bakırdere S., Bakırdere E. G., New solid and liquid phase microextraction strategies for trace analyte determinations in atomic spectroscopy, Doktora, B.Tuğba(Öğrenci), Devam Ediyor
- Bakırdere S., Vücut sıvılarında bulunan farklı hastalık belirteçlerinin tayinlerine yönelik analitik stratejilerin geliştirilmesi, Doktora, U.BALÇIK(Öğrenci), Devam Ediyor
- Bakırdere S., Moleküler Baskılı Polimerlerin Analitik Uygulamaları, Yüksek Lisans, N.Aylin(Öğrenci), Devam Ediyor
- Keyf S., Bakırdere S., Organik/İnorganik Kirleticilerin Ultraeser Seviyelerde Tayinlerine Yönelik Yeni Analitik Stratejilerin Geliştirilmesi, Doktora, T.UNUTKAN(Öğrenci), Devam Ediyor
- Engin G., Bakırdere S., Simultaneous Determination of Nervous System Drugs and Their Treatment From Wastewater by Novel Adsorption Technologies, Doktora, G.DALGIÇ(Öğrenci), Devam Ediyor
- Bakırdere S., Accurate and sensitive determination of organic and inorganic contaminants in body fluids and environmental samples using novel analytical strategies, Doktora, S.ERARPAT(Öğrenci), Devam Ediyor
- Bakırdere S., Acı biber örneklerinde kapsaisin tayinine yönelik özgün mikroekstraksiyon yöntemleri geliştirilmesi, Yüksek Lisans, İ.ŞAHİN(Öğrenci), Devam Ediyor
- Bakırdere S., Eser Seviyelerde Melamin Tayinine Yönelik Analitik Yöntem Geliştirilmesi, Yüksek Lisans, E.MALTEPE(Öğrenci), Devam Ediyor
- Bakırdere S., Can S., Selenyum, krom türlemesi ve ceviz köken tayinine yönelik yüksek doğruluk ve duyarlılıkta analitik yöntemler geliştirilmesi, Doktora, B.Arı(Öğrenci), Devam Ediyor
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- Özbek B., Bakırdere S., Determination of Trace Analytes in Biological Fluids by Q TOF LC/MS Using Isotope Dilution Method, Doktora, E.ÖZTÜRKER(Öğrenci), 2020
- Bakırdere S., Development of analytical strategies for accurate and precise determination of endocrine disruptive chemicals in biological and environmental matrices, Yüksek Lisans, S.ERARPAT(Öğrenci), 2019
- Bakırdere S., Pestisit ve Endokrin Bozucu Maddelerin Düşük Seviyelerde Eşzamanlı Tayinleri ve Biyoerişebilirlik

Seviyelerinin Belirlenmesi, Yüksek Lisans, U.Balçık(Öğrenci), 2019

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

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BAKIRDERE S., İlaç Aktif Maddelerinin Kararlılık Seviyelerinin HPLC Cihaz İle Tayinleri, Yüksek Lisans, A.Kemal(Öğrenci), 2016

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

Keyf S., Bakırdere S., Amoksisilinin Farklı Matrikslerde Yüksek Basıncılı Sıvı Kromatografi Sistemi İle Düşük Seviyelerde Tayini, Yüksek Lisans, T.UNUTKAN(Öğrenci), 2016

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

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

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A spray assisted droplet formation-liquid phase microextraction procedure for the quantification of trace levels of manganese in French Lavender Tea Infusions with flame atomic absorption spectrometry**  
Atakol M., Yıldırım V., ATAKOL A., Akbiyık H., Zaman B. T., ATAKOL O., BAKIRDERE S.  
Journal of Food Composition and Analysis, cilt.142, 2025 (SCI-Expanded)
- II. **Trace determination of cobalt in heather leaf tea by matrix matching calibration assisted flame atomic absorption spectrometry following a dispersive liquid-liquid microextraction utilizing a Schiff base ligand**  
Atakol A., ZEYDANLI D., Göver T., Atakol M., Serbest H., Karakebab K., Büyük M. A., ATAKOL O., BAKIRDERE S.  
Measurement: Journal of the International Measurement Confederation, cilt.248, 2025 (SCI-Expanded)
- III. **Conductive poly(bromophenol red) film coated graphene oxide-ZnO nanocomposite modified electrode for enzymeless voltammetric determination of ethyl-paraoxon**  
KARAKAYA S., Demir C., Zaman B. T., BAKIRDERE S., DİLGİN Y.  
Journal of Food Composition and Analysis, cilt.141, 2025 (SCI-Expanded)
- IV. **Trace copper determination in mate tea and tap water using FAAS and spray-assisted liquid phase microextraction**  
Karakebab K., Serbest H., TURAK F., BAKIRDERE S.  
Journal of Food Composition and Analysis, cilt.140, 2025 (SCI-Expanded)
- V. **Development of a NiMn2O4@Fe3O4 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, cilt.140, 2025 (SCI-Expanded)
- VI. **Trace element determination using mass spectrometry coupled detection methods**  
Chormey D. S., Er E. Ö., ERARPAT BODUR S., Zaman B. T., Bodur S., Kustanto T. B., Kayın İ., BAKIRDERE S.

Trends in Environmental Analytical Chemistry, cilt.45, 2025 (SCI-Expanded)

- VII. **A quick and effective approach for removing Ni(II) from paper mill wastewater with magnesium ferrite nanoadsorbent: method development, reusability, isotherm models, and adsorption kinetics**  
Bahçivan A., Atakol A., Zaman B. T., DALGIÇ BOZYİĞİT G., DEMİR S., BAKIRDERE S.  
Journal of Nanoparticle Research, cilt.27, sa.3, 2025 (SCI-Expanded)
- VIII. **A sensitive determination of lead by hydride generation integrated with micro-sampling gas-liquid separator-FAAS after preconcentration by NiFe<sub>2</sub>O<sub>4</sub> nanoparticles**  
Ayyıldız M. F., Bodur S., BAKIRDERE S.  
Scientific reports, cilt.15, sa.1, ss.3172, 2025 (SCI-Expanded)
- IX. **A simple and efficient magnetic solid phase extraction strategy assisted by CoS@polypyrrole@Fe<sub>3</sub>O<sub>4</sub> nanocomposite for determination of palladium in the soil samples**  
Zeytinci N. K., Akbiyik H., Zaman B. T., Şahin Ç., BAKIRDERE S.  
Microchemical Journal, cilt.208, 2025 (SCI-Expanded)
- X. **Biocompatible silver nanoparticles from apricot kernel skin: a green synthesis approach to antibacterial and antiangiogenic therapies**  
Nejati O., Torkay G., Girgin A., Zaman B. T., Akar R. O., Giray B., Ulukaya E., BAKIRDERE S., Bal-Öztürk A.  
Chemical Papers, cilt.79, sa.1, ss.447-462, 2025 (SCI-Expanded)
- XI. **Determination of Cobalt in Tap Water by Deep Eutectic Solvent-Dithizone Assisted Liquid Phase Microextraction (LPME) Preconcentration with Flame Atomic Absorption Spectrometry (FAAS)**  
Ağbulak A., Kılınç Y., Zaman B. T., Göver T., Atakol M., TURAK F., BAKIRDERE S.  
Analytical Letters, 2025 (SCI-Expanded)
- XII. **Dispersive solid phase extraction and quadruple isotope dilution-mass spectrometry combination for the accurate and sensitive quantification of capsaicin in pepper, domestic wastewater and human saliva samples by GC-MS system**  
Bodur S., ERARPAT BODUR S., GÜRSOY S., Ayyıldız M. F., Kartoğlu B., Akbiyik H., GÜNKARA Ö. T., BAKIRDERE S.  
Microchemical Journal, cilt.208, 2025 (SCI-Expanded)
- XIII. **Development of a Solidification of Floating Organic Droplet-Based Liquid-Liquid Microextraction Method Utilizing a Schiff Base Ligand for the Determination of Nickel at Trace Levels in Saint John's Wort Tea Infusions by Matrix Matching Calibration Assisted Slotted Quartz Tube-Flame Atomic Absorption Spectroscopy**  
Atakol M., Akbiyik H., Atakol A., Yildirim V., BAKIRDERE S., ATAKOL O.  
Analytical Letters, 2025 (SCI-Expanded)
- XIV. **Determination of copper at trace levels in fennel tea samples by flame atomic absorption spectrometry after the implementation of simultaneous complexation and supramolecular solvent based spraying assisted liquid phase microextraction**  
Tutar B. K., Tutar Ö. F., Bodur S., Derin Y., Tutar A., BAKIRDERE S.  
Journal of Food Composition and Analysis, cilt.137, 2025 (SCI-Expanded)
- XV. **Development of Mn<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub> nanoplates assisted treatment strategy for the removal of cadmium from synthetic domestic wastewater**  
Öner M., Akbiyik H., Gürsoy S., Demir C., ÇETİN G., BAKIRDERE S.  
Chemical Engineering Communications, 2025 (SCI-Expanded)
- XVI. **Development an effective adsorptive treatment strategy for the removal of cadmium from textile wastewater by CuBi<sub>2</sub>O<sub>4</sub>@Fe<sub>3</sub>O<sub>4</sub> nanocomposites**  
Büyük M. A., Serbest H., DALGIÇ BOZYİĞİT G., BAKIRDERE S.  
Chemical Engineering Communications, cilt.212, sa.3, ss.409-421, 2025 (SCI-Expanded)
- XVII. **Preconcentration of bismuth using nickel hydroxide nanoflower from water samples and determination by FAAS**  
YILDIZ O. B., Durukan İ., Şaylan M., Zaman B. T., BAKIRDERE S.  
Environmental Monitoring and Assessment, cilt.197, sa.1, 2025 (SCI-Expanded)
- XVIII. **Simultaneous determination of nineteen azo dyes in water samples by gas chromatography-mass spectrometry after Fe<sub>3</sub>O<sub>4</sub>@COF based dispersive solid phase extraction**

Karlıdağ N. E., Bodur S., GÜNKARA Ö. T., BAKIRDERE S.

Scientific Reports, cilt.14, sa.1, 2024 (SCI-Expanded)

- XIX. **Microwave-assisted synthesis of antimony oxide nanoparticles for the determination of trace cadmium in mulberry leaf tea matrices by flame atomic absorption spectrophotometry**  
İnce M. N., Serbest H., BAKIRDERE S.  
Journal of Analytical Science and Technology, cilt.15, sa.1, 2024 (SCI-Expanded)
- XX. **Synthesis of calcium phosphate nanomaterial from quail eggshell for cadmium removal from wastewater and its genotoxic/cytotoxic properties**  
Demir C., Bakırdere B. E., Zaman B. T., Öner M., DALGIÇ BOZYİĞİT G., Ergenler A., Turan F., Nejati O., Öztürk A. B., ÇETİN G., et al.  
Environmental Monitoring and Assessment, cilt.196, sa.12, 2024 (SCI-Expanded)
- XXI. **Combination of spraying based liquid phase microextraction and liquid chromatography–tandem mass spectrometry for the determination of colchicine at ultra–trace levels in artificial urine and serum samples**  
Kutlu R., Bodur S., GÜNKARA Ö. T., BAKIRDERE S.  
Microchemical Journal, cilt.207, 2024 (SCI-Expanded)
- XXII. **Mn<sub>3</sub>O<sub>4</sub>–MnOOH nanocomposites for the adsorption-based removal of nickel ions from wastewater**  
Doru E. S., Öztürk Er E., Zaman B. T., BAKIRDERE S.  
Environmental Monitoring and Assessment, cilt.196, sa.12, 2024 (SCI-Expanded)
- XXIII. **Removal of cadmium ions from synthetic wastewater samples by copper ferrite magnetic nanoparticle–assisted batch-type adsorption-based removal strategy**  
Zaman B. T., Akbıyık H., Girgin A., DALGIÇ BOZYİĞİT G., BAKIRDERE E. G., BAKIRDERE S.  
Environmental Monitoring and Assessment, cilt.196, sa.12, 2024 (SCI-Expanded)
- XXIV. **Spray-assisted drop formation liquid-phase microextraction for the determination of sertraline in environmental water samples with matrix-matching calibration in GC–MS**  
Zeytinci N. K., Akbıyık H., Tezgin E., Zaman B. T., DALGIÇ BOZYİĞİT G., Şaylan M., BAKIRDERE S.  
Journal of Analytical Science and Technology, cilt.15, sa.1, 2024 (SCI-Expanded)
- XXV. **Combination of quadruple isotope dilution strategy and dispersive solid phase extraction method for accurate quantification of selected steroid hormones**  
Ular Çağatay N., Bodur S., Bodur S., Maviş M. E., BAKIRDERE S.  
Analytical Methods, cilt.17, sa.2, ss.256-264, 2024 (SCI-Expanded)
- XXVI. **Microwave-Assisted Synthesis of Selenium Nanoparticles: Bioactivity Insights**  
Tırlı B., Nejati O., Torkay G., Giray B., Bal-Öztürk A., BAKIRDERE S.  
ChemistrySelect, cilt.9, sa.43, 2024 (SCI-Expanded)
- XXVII. **Microwave-Assisted Synthesis Method for the Production of Carbon Nano Dots and Its Genotoxicity Assessment**  
Tekin Z., Ergenler A., Zaman B. T., GÜNKARA Ö. T., Depci T., Turan F., BAKIRDERE S.  
ChemistrySelect, cilt.9, sa.37, 2024 (SCI-Expanded)
- XXVIII. **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, cilt.196, sa.10, ss.996, 2024 (SCI-Expanded)
- XXIX. **A simple and efficient supramolecular solvent based liquid phase microextraction method for the preconcentration of nickel from dandelion tea samples before FAAS quantification, and the practicality and greenness assessment of developed method**  
Kartoğlu B., Bodur S., Gülhan Bakırdere E., BAKIRDERE S.  
Microchemical Journal, cilt.205, 2024 (SCI-Expanded)
- XXX. **Development of dispersive solid phase extraction method for the preconcentration of parathion ethyl as a simulant of nerve agent sarin from soil, plant and water samples prior to GC–MS determination**  
Bodur S., ERARPAT BODUR S., Tutar B. K., BAKIRDERE S., Yağmuroğlu O.

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- XXXI. **Determination of trace amounts of metobromuron herbicide residues in fruits by QuEChERS and DLLME methods**  
Ofly S., Zaman B. T., Kılınç Y., Bakırdere S., Turak F.  
Journal of Food Composition and Analysis, cilt.133, 2024 (SCI-Expanded)
- XXXII. **Determination of capsaicin at trace levels in different food, biological and environmental samples by quadruple isotope dilution-gas chromatography mass spectrometry after its preconcentration**  
ERARPAT BODUR S., Bodur S., Ayyıldız M. F., GÜNKARA Ö. T., Dikmen Y., Doru E. S., BAKIRDERE S.  
Journal of Chromatography A, cilt.1731, 2024 (SCI-Expanded)
- XXXIII. **Efficient removal of estrone and 17 $\beta$ -estradiol from aqueous medium using UV irradiation-assisted fenton process**  
Dikmen Y., Şaylan M., Ofly S., Ayyıldız M. F., Serbest H., DALGIÇ BOZYİĞİT G., BAKIRDERE S.  
Chemical Papers, cilt.78, sa.13, ss.7477-7486, 2024 (SCI-Expanded)
- XXXIV. **Determination of trace levels of thiazopyr residues in oolong tea samples using metal sieve-linked double syringe based liquid-phase microextraction coupled with gas chromatography-mass spectrometry**  
Aydın N., UNUTKAN GÖSTERİŞLİ T., BAKIRDERE S.  
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- XXXV. **CoSn(OH)<sub>6</sub> nanocubes as a solid sorbent for the effective preconcentration of copper ions in cinnamon (Cinnamomum zeylanicum) extract**  
Bağcıvan A., Şaylan M., SAĞDIÇ O., BAKIRDERE S.  
Food Chemistry, cilt.447, 2024 (SCI-Expanded)
- XXXVI. **Graphene oxide-zinc oxide nanocomposite modified disposable electrodes for detection of uric acid in fetal bovine serum**  
Yıldırım A., Maral M., Tugba Zaman B., Bozoglu A., Demir C., BAKIRDERE S., Erdem A.  
Journal of Electroanalytical Chemistry, cilt.965, 2024 (SCI-Expanded)
- XXXVII. **Determination of acetylcysteine and cysteine in pharmaceutical formulations using a smartphone-based digital image colorimetric method**  
Şahin N., Kustanto T. B., Zaman B. T., Korkunç Ü. P., Gel M. S., BAKIRDERE S.  
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- XXXVIII. **Determination of ethalfluralin in soy flour samples using MnO<sub>2</sub>-deep eutectic solvent based nanofluid for its preconcentration prior to GC-FID measurement**  
Gürsoy S., Bombom M., Zaman B. T., TURAK F., Er E. Ö., Korkunç Ü. P., BAKIRDERE S.  
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- XXXIX. **Simultaneous removal of mixed pesticides and natural organic matter from surface waters by nitric and chlorosulfonic acid functionalized powdered activated carbon**  
Aykut-Senel B., Ozgur C., BAKIRDERE S., KAPLAN BEKAROĞLU Ş. Ş., ATEŞ N.  
Journal of Chemical Technology and Biotechnology, cilt.99, sa.7, ss.1646-1659, 2024 (SCI-Expanded)
- XL. **Development of a novel treatment strategy for the removal of cadmium from wastewater samples using poly(vinyl alcohol)-based magnetic hydrogel beads**  
Karlıdağ N. E., Göver T., Er E. Ö., DALGIÇ BOZYİĞİT G., TURAK F., BAKIRDERE S.  
Journal of Nanoparticle Research, cilt.26, sa.6, 2024 (SCI-Expanded)
- XLI. **Determination of copper ion at trace levels in apple tea samples by simultaneous complexation and spray assisted microextraction method prior to detection by flame atomic absorption spectrophotometry**  
Diridiri P. N., Bodur S., Bayraktar A., GÜNKARA Ö. T., BAKIRDERE S.  
Food Chemistry, cilt.441, 2024 (SCI-Expanded)
- XLII. **Determination of copper in rose tea samples using flame atomic absorption spectrometry after emulsification liquid-liquid microextraction**  
Kartoğlu B., Bodur S., ZEYDANLI D., Göver T., Özaydın E., Gülhan Bakırdere E., BAKIRDERE S.  
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- XLIII. **Determination of phenytoin at trace levels in domestic wastewater and synthetic urine samples by gas chromatography-mass spectrometry after its preconcentration by simple liquid-phase microextraction**  
Bodur S., Ayan G. N., Bodur S., GÜNKARA Ö. T., BAKIRDERE S.  
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- XLIV. **Microwave-Assisted Hydrothermal Synthesis of Zinc-tin Based Nanoflower for the Adsorptive Removal of Cadmium from Synthetic Wastewater**  
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- XLV. **Synthesis of Nanocube-Shaped Cobalt Tin Hydroxides for the Preconcentration of Lead in Environmental Seawater Collected from Antarctic Region**  
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- XLVII. **A simple and effective graphene oxide-zinc oxide nanocomposite based solid phase extraction method for the determination of cadmium in tea matrix at trace levels by flame atomic absorption spectrophotometry**  
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- XLVIII. **Trace Determination of Cadmium in Water Matrix by Matrix Matching Calibration Strategy-Based UV-Vis Spectrophotometer After Its Preconcentration**  
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- LI. **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**  
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- LII. **Dual techniques for trace copper determination: DES/Dithizone based liquid phase microextraction-flame atomic absorption spectrophotometry and digital image based colorimetric probe**  
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- LIII. **Microwave-assisted hydrothermal green synthesis of selenium nanoparticles incorporated with hyaluronic acid methacrylate/gelatin methacrylate hydrogels for wound healing applications**  
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- LIV. **Determination of Thallium in Tea with Preconcentration by Microwave-Assisted Synthesized Molybdenum Disulfide Nanoparticles and Flame Atomic Absorption Spectrometry (FAAS) Analysis**  
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- LX. **A simple microwave-assisted synthesis of cobalt ferrite nanoparticles and its application for the determination of lead ions in rooibos (Aspalathus linearis) tea**  
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- LXII. **Biogenic synthesis of novel nanomaterials and their applications**  
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- LXVIII. **T-cut slotted quartz tube-atom trap strategy for the on-line preconcentration of thallium in well water samples**  
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- LXX. **Colorimetric Sensor Based AgNPs for the Detection of Cyanide using UV-Vis Spectrophotometry**  
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- LXXI. **Quantification of trace fenuron in waste water samples by matrix matching calibration strategy and gas chromatography–mass spectrometry after simultaneous derivatization and preconcentration**  
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- LXXIII. **Trace cadmium determination in lake water matrix by flame atomic absorption spectrometry after manganese ferrite magnetic nanoparticles-based dispersive solid phase extraction**  
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- LXXVII. **Determination of selenium by gas chromatography-mass spectrometry after formation of its volatile derivative and preconcentration using vortex-assisted dispersive liquid-liquid microextraction**  
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- LXXVIII. **Distribution of elements in rock/soil and seaweed/moss samples from the West Antarctic region**  
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- LXXIX. **Trace nickel determination in seawater matrix using combination of dispersive liquid–liquid microextraction and triethylamine-assisted Mg(OH)<sub>2</sub> method**  
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- LXXX. **Assessment of external calibration, internal standard calibration and quadruple isotope dilution**

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- LXXXII. **A Simple and Effective Quantification of Water-Soluble Rhodium in Soil Samples by Magnetic-Colloidal-Gel-Assisted Dispersive Solid Phase Extraction**  
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- LXXXIII. **Development of Fe<sub>3</sub>O<sub>4</sub>/reduced graphene oxide nanocomposite-based dispersive solid-phase extraction for the quantification of five steroid hormones**  
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- LXXXIV. **Synthesis of Isotopic Labelled Paracetamol Benzoate-d<sub>3</sub> and Its Application in the Determination of Paracetamol**  
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- LXXXV. **A simple spray assisted extraction/preconcentration of cadmium from sunflower oil, olive oil and hazelnut oil samples prior to flame atomic absorption spectrometry determination**  
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- LXXXVIII. **Deep eutectic solvent-based simultaneous complexation and preconcentration of nickel in Antarctic lake water samples for determination by flame atomic absorption spectrometry**  
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- LXXXIX. **Determination of diflufenican and azaconazole pesticides in wastewater samples by GC-MS after preconcentration with stearic acid functionalized magnetic nanoparticles-based dispersive solid-phase extraction**  
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- XC. **Combination of quadrupole isotope dilution mass spectrometry with simultaneous derivatization and spray assisted droplet formation-liquid phase microextraction for the determination of methamphetamine in human urine and serum samples by gas chromatography mass spectrometry**  
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- XCIII. Determination of cobalt in chamomile tea samples at trace levels by flame atomic absorption spectrophotometry after poly(vinyl alcohol)-magnetic hydrogel based dispersive solid phase extraction**  
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- XCvII. Development of a double monitoring system for the determination of Cr(VI) in different water matrices by HPLC-UV and digital image-based colorimetric detection method with the help of a metal sieve-linked double syringe system in complexation**  
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- XCvIII. Chromium speciation by the combination of high-performance liquid chromatography and inductively coupled plasma-optical emission spectrometry**  
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- XCIX. Performance evaluation of ceramic membrane bioreactor: effect of operational parameters on micropollutant removal and membrane fouling**  
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- C. Removal of twelve endocrine disrupting compounds from wastewater using two laboratory-scale batch-type bioreactors**  
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- CI. Determination of trace cadmium in seawater using combination of polystyrene coated magnetic nanoparticles based DSPE and triethylamine assisted Mg(OH)<sub>2</sub> method**  
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- CII. Combination of high performance liquid chromatography and flame atomic absorption spectrophotometry using a novel nebulizer interface supported T shaped slotted quartz tube for the determination of Vitamin B12**  
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- CIII. Accurate and Sensitive Determination of Concentrations of Twenty-Two Elements in the Surface Water from West Antarctica**  
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- CIV. Determination of gold at trace levels in gold plating wastewater samples by vortex-assisted amidosulfonic acid-coated magnetic nanoparticle-based solid-phase microextraction method prior to**

**slotted quartz tube flame atomic absorption spectrometric measurements**

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- CV. **Polystyrene-coated magnetic nanoparticles based dispersive solid phase extraction for the determination of cadmium in cigarette ash prior to slotted quartz tube flame atomic absorption spectrometry system**  
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- CVI. **A simple and efficient derivatization strategy combined with switchable solvent liquid-liquid microextraction hydroxychloroquine methyl acetate-d(3)-based quadruple isotope dilution gas chromatography mass spectrometry for the determination of hydroxychloroquine sulfate in biological fluids**  
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- CVII. **Development of a metal sieve-linked double syringe liquid phase microextraction method for the determination of copper in olive leaf extract samples by flame atomic absorption spectrometry**  
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- CVIII. **A Binary Solvent Dispersive Liquid-Liquid Microextraction Method for the Determination of Four Endocrine Disruptor Compounds by Gas Chromatography with Flame Ionization Detector**  
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- CIX. **Novel Salicylic Acid Modified Magnetic Nanoparticles Based Ligandless Extraction for the Accurate Determination of Bismuth in Urine Samples by Flame Atomic Absorption Spectrophotometry**  
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- CX. **Magnetic Nanoparticle-Based Dispersive Solid-Phase Microextraction of Three UV Blockers Prior to Their Determination by HPLC-DAD**  
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- CXI. **Development and validation of dispersive liquid-liquid microextraction method for the determination of 15 polycyclic aromatic hydrocarbons in 200 Antarctica samples by gas chromatography mass spectrometry**  
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- CXII. **Serum Levels of Selected Elements in Patients with Beta Thalassemia Major**  
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- CXIII. **Performance Evaluation of A/O Membrane Bioreactor System in the Effective Removal of Endocrine-Disrupting Chemicals: the Effect of SRT and Flux Rate**  
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Water Air And Soil Pollution, cilt.233, ss.119-135, 2022 (SCI-Expanded)
- CXIV. **Dispersive solid phase extraction based on reduced graphene oxide modified Fe<sub>3</sub>O<sub>4</sub> nanocomposite for trace determination of parabens in rock, soil, moss, seaweed, feces, and water samples from Horseshoe and Faure Islands**  
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- CXV. **Development of a double-monitoring method for the determination of total antioxidant capacity as ascorbic acid equivalent using CUPRAC assay with RP-HPLC and digital image-based colorimetric detection**

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- CXVI. **Accurate determination of amino acids by quadruple isotope dilution-reverse phase liquid Chromatography-Tandem mass spectrometry after derivatization with 2-Naphthoyl chloride**  
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- CXVII. **Polystyrene-Coated Magnetite Nanoparticles Based Dispersive Micro-Solid Phase Extraction of Active Pharmaceutical Ingredients of Antidepressant Drugs and Determination by GC-MS**  
DALGIÇ BOZYIĞIT G., Zaman B. T., ÖZDEMİR O. K., Kilinc Y., Chormey D. S., ENGİN G., BAKIRDERE S.  
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- CXVIII. **Bioaccessibility and bioavailability of selenium species in Se-enriched leeks (*Allium Porrum*) cultivated by hydroponically**  
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- CXIX. **Trace level determination of eleven nervous system-active pharmaceutical ingredients by switchable solvent-based liquid-phase microextraction and gas chromatography-mass spectrometry with matrix matching calibration strategy**  
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- CXX. **Determination of levetiracetam by GC-MS and effects of storage conditions and gastric digestive systems on drug samples**  
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- CXXI. **Zirconium Nanoparticles Based Vortex Assisted Ligandless Dispersive Solid Phase Extraction for Trace Determination of Lead in Domestic Wastewater using Flame Atomic Absorption Spectrophotometry**  
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- CXXII. **One step derivatization and dispersive liquid-liquid microextraction of hydroxychloroquine sulfate for its sensitive and accurate determination using GC-MS**  
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- CXXIV. **Trace Determination of Rhodium in Coating Wastewater by Vortex Assisted Magnetic Nanoparticle Based Solid Phase Microextraction (MNP-SPME) Combined with Slotted Quartz Tube-Flame Atomic Absorption Spectrometry (SQT-FAAS) with Matrix Matching Calibration**  
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- CXXV. **Determination of Four Priority Polycyclic Aromatic Hydrocarbons in Food Samples by Gas Chromatography - Mass Spectrometry (GC-MS) after Vortex Assisted Dispersive Liquid-Liquid Microextraction (DLLME)**  
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- CXXVI. **Stearic Acid Functionalized Iron Nanoparticle Based Magnetic Solid-Phase Extraction (MSPE) for the Determination of Oxadiazon in Purslane by High-Performance Liquid Chromatography (HPLC)**  
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- CXXXVII. **Nanoparticles Based Extraction Strategies for Accurate and Sensitive Determination of Different Pesticides**  
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- CXXXVIII. **Determination of Silver in Metal Plating Wastewater by Slotted Quartz Tube Flame Atomic Absorption Spectrometry (SQT-FAAS) after Preconcentration with Stearic Acid-Coated Magnetite Nanoparticle-Based Solid-Phase Microextraction (SA-MNP-SPME)**  
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- CXXX. **Determination of Trace Nickel after Complexation with a Schiff Base by Switchable Solvent - Liquid Phase Microextraction (SS-LPME) and Flame Atomic Absorption Spectrometry (FAAS)**  
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- CXL. **A Novel Hydrogen Fluoride Assisted-Glass Surface Etching Based Liquid Phase Microextraction for the Determination of 4-n- Nonylphenol in Water by Gas Chromatography-Mass Spectrometry with Matrix Matching Strategy**  
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- CXLI. **Sensitive, Accurate and Selective Determination of Cd(II) Using Anodic Stripping Voltammetry With In-situ Hg-Bi Film Modified Pencil Graphite Electrode After Magnetic Dispersive Solid Phase Microextraction**  
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- CXLII. **Determination of nickel in daphne tea extract and lake water samples by flame atomic absorption spectrophotometry with a zirconium-coated T-shaped slotted quartz tube-atom trap and photochemical vapor generation sample introduction**  
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- CXLIV. **Development of a switchable solvent liquid phase extraction method for the determination of chlorthiamid, ethyl parathion, penconazole and fludioxonil pesticides in well, tap and lake water samples by gas chromatography mass spectrometry**  
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- CXLV. **Surface modified iron magnetic nanoparticles assisted Fenton digestion and extraction method for cadmium determination**  
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- CXLVI. **An effective and rapid magnetic nanoparticle based dispersive solid phase extraction method for the extraction and preconcentration of cadmium from edible oil samples before ICP OES measurement**  
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- CXLVII. **Determination of selenite and selenomethionine in kefir grains by reversed-phase high-performance liquid chromatography-inductively coupled plasma-optical emission spectrometry**  
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- CXLVIII. **Accurate and sensitive analytical method for trace iron determination in clove tea and tap water samples by slotted quartz tube-flame atomic absorption spectrometry after its preconcentration with supramolecular solvent-based liquid-phase microextraction**  
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- CL. **Quadruple isotope dilution gas chromatography-mass spectrometry after simultaneous derivatization and spraying based fine droplet formation liquid phase microextraction method for the accurate and sensitive quantification of chloroquine phosphate in human serum, urine and saliva samples at trace levels**  
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- CLI. **Preconcentration of tellurium using magnetic hydrogel-assisted dispersive solid-phase extraction and its determination by slotted quartz tube-flame atomic absorption spectrophotometry**  
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- CLII. **An accurate analytical method for the determination of antimony in tea and tap water samples: photochemical vapor generation-atom trapping prior to FAAS measurement**  
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- CLIII. **A Sensitive Microextraction Method Using Effervescence Tablets to Disperse Fe<sub>3</sub>O<sub>4</sub> Nanoparticles for Cadmium Determination in Lake Water Samples**  
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- CLIV. **Accurate and sensitive determination of cobalt in urine samples using deep eutectic solvent-assisted magnetic colloidal gel-based dispersive solid phase extraction prior to slotted quartz tube equipped flame atomic absorption spectrometry**  
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- CLV. **Simultaneous Complexation and Microextraction Using Verbenone Hydrazone as the Ligand with Slotted Quartz Tube-Flame Atomic Absorption Spectrometry (FAAS) for the Sensitive Determination of Copper**  
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- CLVI. **Accurate Quantification of Nervous System Drugs in Aqueous Samples at Trace Levels by Binary Solvent Dispersive Liquid-Liquid Microextraction-Gas Chromatography Mass Spectrometry**  
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- CLVII. **Implementation of a spraying-assisted fine droplet formation-based simultaneous liquid-phase microextraction method for the determination of copper in clove extract samples**  
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- CLVIII. **Photochemical Vapor Generation Based Accurate Determination of Cadmium in Wastewater Using Novel Photoreactor and Gas-Liquid Separators Using Flame Atomic Absorption Spectrometry with Matrix Matching Calibration**  
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- CLIX. **Combination of an Efficient Photochemical Vapor Generation System and Flame Atomic Absorption Spectrophotometry for Trace Nickel Determination in Wastewater Samples**  
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- CLX. **Accurate and sensitive determination of hydroxychloroquine sulfate used on COVID-19 patients in human urine, serum and saliva samples by GC-MS**  
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- CLXI. **An accurate analytical method for the determination of cadmium: Ultraviolet based photochemical**



- vapor generation-slotted quartz tube based atom trap-flame atomic absorption spectrophotometry**  
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- CLXII. **Determination of pyridaphenthion in soybean sprout samples by gas chromatography mass spectrometry with matrix matching calibration strategy after metal sieve linked double syringe based liquid-phase microextraction**  
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- CLXIII. **Ultrasonic assisted glass bead loaded gas liquid separator-photochemical vapor generation-T-shaped slotted quartz tube-flame atomic absorption spectrophotometry system for antimony determination in tap water and wastewater samples**  
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- CLXIV. **Determination of Manganese in Coffee and Wastewater Using Deep Eutectic Solvent Based Extraction and Flame Atomic Absorption Spectrometry**  
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- CLXV. **Determination of seventeen free amino acids in human urine and plasma samples using quadruple isotope dilution mass spectrometry combined with hydrophilic interaction liquid chromatography – Tandem mass spectrometry**  
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- CLXVIII. **A simple and effective determination of methyl red in wastewater samples by UV-Vis spectrophotometer with matrix matching calibration strategy after vortex assisted deep eutectic solvent based liquid phase extraction and evaluation of green profile**  
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- CLXIX. **Determination of Pyridaphenthion in Aqueous and Food Samples by Reverse Phase High Performance Liquid Chromatography (HPLC) after QuEChERS Extraction and Degradation Studies under Ultraviolet (UV) Radiation**  
Chormey D. S., Yilmaz Durak B., BAKIRDERE S.  
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- CLXX. **Sodium, Magnesium, Calcium, Manganese, Iron, Copper, and Zinc in Serums of Beta Thalassemia Major Patients**  
Şahin A., Er E., Öz E., Yıldırım Z. Y., Bakirdere S.  
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- CLXXI. **An accurate and sensitive effervescence-assisted liquid phase microextraction method for the determination of cobalt after a Schiff base complexation by slotted quartz tube-flame atomic absorption spectrophotometry in urine samples**  
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- CLXXII. **A miniaturized spray-assisted fine-droplet-formation-based liquid-phase microextraction method for the simultaneous determination of fencipronil, nitrofen and fenoxaprop-ethyl as pesticides in soil**

**samples**

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- CLXXIII. **Dispersive Liquid-Liquid Microextraction Based Preconcentration of Selected Pesticides and Escitalopram Oxalate, Haloperidol, and Olanzapine from Wastewater Samples Prior to Determination by GC-MS**

DALGIÇ BOZYIĞİT G., Ayyıldız M. F., Chormey D. S., ENGİN G., BAKIRDERE S.

JOURNAL OF AOAC INTERNATIONAL, cilt.104, sa.1, ss.91-97, 2021 (SCI-Expanded)

- CLXXIV. **Determination of copper in traditional coffee pot water samples by flame atomic absorption spectrometry and matrix matching calibration strategy after switchable solvent based liquid-phase microextraction**

Ercan M. S. F., Ayyıldız M. F., Chormey D. S., BAKIRDERE S.

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- CLXXV. **A primary reference method for the characterization of Cd, Cr, Cu, Ni, Pb and Zn in a candidate certified reference seawater material: TEA/Mg(OH)<sub>2</sub> assisted ID3MS by triple quadrupole ICP-MS/MS**

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Analytica Chimica Acta, cilt.1140, ss.178-189, 2020 (SCI-Expanded)

- CLXXVI. **Accurate, sensitive determination of omega-6 and omega-3 polyunsaturated fatty acids in human plasma, urine samples**

Öztürk Er E., Sahin A., Bakirdere S.

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- CLXXVII. **A new microextraction method for trace nickel determination in green tea samples: Solventless dispersion based dispersive liquid-liquid microextraction combined with slotted quartz tube- flame atomic absorption spectrophotometry**

Erulaş A. F., Şaylan M., Topal S., Zaman B. T., BAKIRDERE E. G., BAKIRDERE S.

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- CLXXVIII. **Determination of fipronil and bixafen pesticides residues using gas chromatography mass spectroscopy with matrix matching calibration strategy after binary dispersive liquid-liquid microextraction**

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- CLXXIX. **A sensitive determination method for trace bisphenol A in bottled water and wastewater samples: Binary solvent liquid phase microextraction-quadrupole isotope dilution-gas chromatography-mass spectrometry**

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- CLXXX. **Ultra-trace cadmium determination in eucalyptus and rosemary tea samples using a novel method: deep eutectic solvent based magnetic nanofluid liquid phase microextraction-slotted quartz tube-flame atomic absorption spectrometry**

Kasa N. A., Zaman B. T., BAKIRDERE S.

JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY, cilt.35, sa.11, ss.2565-2572, 2020 (SCI-Expanded)

- CLXXXI. **Determination of Copper in Quince Samples with a Matrix Matching Strategy Using Vortex Assisted Deep Eutectic Solvent-Based Emulsification Liquid Phase Microextraction-Slotted Quartz Tube-Flame Atomic Absorption Spectrometry**

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Analytical Letters, cilt.53, sa.17, ss.2748-2760, 2020 (SCI-Expanded)

- CLXXXII. **Zirconium nanoparticles based dispersive solid phase extraction prior to slotted quartz tube-flame atomic absorption spectrophotometry for the determination of selenium in green tea samples**

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FOOD CHEMISTRY, cilt.329, 2020 (SCI-Expanded)

- CLXXXIII. **Chitosan magnetic hydrogel based ligandless magnetic solid phase extraction for the accurate and sensitive determination of thallium by slotted-quartz tube flame atomic absorption spectrophotometry with matrix matching calibration strategy**  
Maltepe E., ÖZTÜRK ER E., BAKIRDERE S.  
MICROCHEMICAL JOURNAL, cilt.158, 2020 (SCI-Expanded)
- CLXXXIV. **An accurate and sensitive analytical method for the simultaneous determination of glycine, methionine and homocysteine in biological matrices by matrix matching strategy and LC-quadrupole-time-of-flight-MS/MS**  
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- CLXXXV. **Simultaneous Determination of Harmful Aromatic Amine Products of Azo Dyes by Gas Chromatography-Mass Spectrometry**  
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- CLXXXVI. **Feasibility Studies on the Effect of Natural Plant Compounds on Sludge Characteristics in a Batch-Type Aerobic Reactor and N-butyryl-L Homoserine Lactone**  
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- CLXXXVII. **Accurate and simple determination of oxcarbazepine in human plasma and urine samples using switchable-hydrophilicity solvent in GC-MS**  
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- :LXXXVIII. **A novel and rapid extraction protocol for sensitive and accurate determination of prochloraz in orange juice samples: Vortex-assisted spraying-based fine droplet formation liquid-phase microextraction before gas chromatography-mass spectrometry**  
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- CLXXXIX. **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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Microchemical Journal, cilt.157, 2020 (SCI-Expanded)
- CXC. **Accurate and Sensitive Determination of Atraton in Dried Tomato and Corn Flour by High-Performance Liquid Chromatography (HPLC) and Characterization of Its Stability in Gastric Conditions and by Ultraviolet Radiation**  
Özdoğan N., Yener B., Zaman B. T., BAKIRDERE S.  
Analytical Letters, cilt.53, sa.13, ss.2047-2059, 2020 (SCI-Expanded)
- CXCI. **Accurate and Sensitive Analytical Method for the Determination of Cyclanilide in Cotton and Cosmetic Pads at Trace Levels Using the Combination of Vortex Assisted Iron(II,III)/Reduced Graphene Oxide Nanocomposite Based Dispersive Solid Phase Extraction and High Performance Liquid Chromatography (HPLC)**  
Erarpat S., Maltepe E., Öztürk Er E., Bakırdere S.  
Analytical Letters, cilt.53, sa.14, ss.2278-2291, 2020 (SCI-Expanded)
- CXCII. **Zirconium nanoparticles based ligandless dispersive solid phase extraction for the determination of antimony in bergamot and mint tea samples by slotted quartz tube-flame atomic absorption spectrophotometry**  
Karlidag N. E., Toprak M., Tekin Z., BAKIRDERE S.  
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- CXCIII. **Simple and Green Vortex-Assisted Switchable Solvent Liquid Phase Microextraction for the Determination of Indium in Soil with Matrix Matching and Slotted Quartz Tube (SQT)-Flame Atomic Absorption Spectrometry (FAAS)**

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- CCIV. **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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- CCXI. **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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- CCXIII. **Liquid phase microextraction based sensitive analytical strategy for the determination of 22 hazardous aromatic amine products of azo dyes in wastewater and tap water samples by GC-MS system**  
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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. **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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- CCXVI. **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)**  
Borahan T., UNUTKAN T., BAKIRDERE S.  
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- CCXVII. **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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- CCXVIII. **Sensitive Determination of Selected Drug Active Compounds in Wastewater Matrices by LC-QTOF-MS/MS after Vortex Assisted Binary Solvents Dispersive Liquid-Liquid Microextraction**  
Seda Koçoğlu E. S., SÖZÜDOĞRU O., KOMESLİ O. T., YILMAZ A. B., Er E., BAKIRDERE S.  
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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. **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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- CCXXI. **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**  
Budak T., Ayyıldız M. F., Chormey D. S., Bakırdere S.  
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- CCXXII. **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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- CCXXIII. **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**  
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- CCXXIV. **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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- CCXXV. **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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- CCXXVI. **Traceable and accurate quantification of iron in seawater using isotope dilution calibration**

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Arı B., Can S. Z., BAKIRDERE S.

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- CCXXVII. **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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- CCXXVIII. **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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- CCXXIX. **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.  
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- CCXXX. **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, cilt.192, sa.2, 2020 (SCI-Expanded)
- CCXXXI. **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., Bakirdere S.  
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- CCXXXII. **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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- CCXXXIII. **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., Bakirdere S.  
Analytical Letters, cilt.53, sa.2, ss.165-173, 2020 (SCI-Expanded)
- CCXXXIV. **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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- CCXXXV. **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**  
Öztürk Er E., Akkaya E., Özbek B., Bakirdere S.  
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- CCXXXVI. **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**  
Tekin Z., Zaman B. T., BAKIRDERE S.  
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- CCXXXVII. **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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- CCXXXVIII. **Removal of Heavy Metals by a Membrane Bioreactor Combined with Activated Carbon**  
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- CCXXXIX. **Influence of Hydraulic Retention Time (HRT) upon the Treatment of Wastewater by a Laboratory-Scale Membrane Bioreactor (MBR)**  
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- CCXL. **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**  
Şahin İ., Durak B. Y., Sağsöz O., Büyükpınar Ç., BAKIRDERE S.  
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- CCXLI. **Optimization of atrazine removal from synthetic groundwater by electrooxidation process using titanium dioxide and graphite electrodes**  
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- CCXLII. **Determination of indium in lettuce samples using hydrogen supported-T-cut-slotted quartz tube-atom trap-flame atomic absorption spectrometry**  
Kapukıran F., YILMAZ Ö., Tekin Z., Büyükpınar Ç., Özdoğan N., BAKIRDERE S.  
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- CCXLIII. **Determination of Trace Element Concentrations in Blood Samples and Their Correlation to Breast Cancer**  
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- CCXLIV. **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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- CCXLV. **An analytical strategy for propoxur determination in raisin samples with matrix matching method after dispersive liquid-liquid microextraction**  
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- CCXLVI. **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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- CCXLVII. **Radiation interaction parameters for blood samples of breast cancer patients: an MCNP study**  
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- CCXLVIII. **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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- CCXLIX. **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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- CCL. **Determination of micropollutants in wastewater matrix using gas chromatography-mass spectrometry after optimization of dispersive liquid-liquid microextraction**  
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- CCLI. **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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- 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**  
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- CCLIII. **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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- CCLIV. **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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- CCLV. **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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- CCLVI. **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, cilt.191, ss.692, 2019 (SCI-Expanded)
- CCLVII. **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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- CCLVIII. **Binary dispersive liquid-liquid microextraction strategy for accurate and precise determination of micropollutants in lake, well and wastewater matrices**  
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- CCLIX. **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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- CCLX. **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.

- JOURNAL OF MATERIALS RESEARCH AND TECHNOLOGY-JMR&T, cilt.1, sa.1, ss.1-16, 2019 (SCI-Expanded)
- CCLXI. **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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- CCLXII. **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.  
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- CCLXIII. **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**  
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- CCLXIV. **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.  
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- CCLXV. **Ultrasound-assisted dispersive solid phase extraction based on Fe3O4/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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- CCLXVI. **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., Bozyigit G., BAKIRDERE S.  
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- CCLXVII. **Ultrasound assisted deep eutectic solvent based microextraction-slotted quartz tube-flame atomic absorption spectrometry for the determination of cadmium**  
UNUTKAN T., Tıřlı B., Tekin Z., ÇETİN G., BAKIRDERE S.  
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- CCLXVIII. **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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- CCLXIX. **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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**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**

Özdoğan N., Kapukıran F., Chormey D. S., BAKIRDERE S.

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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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**LXXIV. Production and characterization studies of a three-component scaffold composed of hydroxyapatite-graphene oxide-chitosan for bone tissue engineering applications**

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Yolcu Ş. M., Fırat M., Chormey D. S., BÜYÜKPINAR Ç., TURAK F., BAKIRDERE S.

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**LXXVIII. The effect of HRT and SRT in the treatment of domestic wastewater by MBR**

Massara T. M., KOMESLİ O. T., SÖZÜDOĞRU O., YILMAZ A. E., BAKIRDERE S., Katsou E.

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