

Prof. Sezgin BAKIRDERE

Personal Information

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Education Information

Doctorate, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya, Turkey 2004 - 2009

Post Graduate, Fırat Üniversitesi, Fen Edebiyat Fakültesi, Kimya, Turkey 2001 - 2003

Under Graduate, Fırat Üniversitesi, Fen-Edebiyat Fakültesi, 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

Post Graduate, 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 Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 2017 - Continues

Associate Professor, Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 2013 - 2017

Associate Professor, Yıldız Teknik Üniversitesi, Faculty of Education, Matematik Ve Fen Bilimleri Bölümü, 2012 - 2013

Assistant Professor, Yıldız Teknik Üniversitesi, 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, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 2009 - 2010

Research Assistant, Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 2002 - 2009

Professional Experience

Dean, Yıldız Teknik Üniversitesi, Faculty of Applied Sciences, 2017 - Continues

Manager of Research and Application Center, Yıldız Teknik Üniversitesi, Bilim Ve Teknoloji Uygulama Ve Araştırma Merkezi, 2016 - Continues

Rector's Advisor, Yıldız Teknik Üniversitesi, Rectorate, 2016 - Continues

Deputy Head of Department, Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi Kimya Bölümü, 2014 - 2016

Advising Theses

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

BAKIRDERE 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

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

BAKIRDERE S., Uçucu Bileşen Oluşturma -Atomik Absorpsiyon Spektrofotometre Sisteminde Analitlerin Düşük Seviyelerde Tayinleri, Post Graduate, B.Tuğba(Student), Continues

BAKIRDERE S., Pestisit ve Endokrin Bozucu Maddelerin Düşük Seviyelerde Eşzamanlı Tayinleri ve Biyoerişebilirlik Seviyelerinin Belirlenmesi, Post Graduate, U.Balçık(Student), Continues

BAKIRDERE S., Yüzen Katı Organik Damla Mikroekstraksiyon Yöntemi ile Eser Seviyede Analit Tayinleri, Post Graduate, D.Terzioğlu(Student), Continues

BAKIRDERE S., Gıda/Çevre/Biyolojik Örneklerde Türleme Çalışmalarına Yönelik Analitik Yöntem Geliştirilmesi, Doctorate, B.Arı(Student), Continues

BAKIRDERE S., Eser Analiz ve Türleme Çalışmalarında Kromatografik Yöntemler, Post Graduate, 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, Post Graduate, A.Kemal(Student), 2016

İÇELLİ O., BAKIRDERE S., Ses dalgaları, manyetik alan ve elektrik alan etkisinde kurutulan gıdalarda mikotoksinlerin tayini ve fiziksel/kimyasal parametrelerin incelenmesi, Doctorate, E.Nuroğlu(Student), 2016

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

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

BAKIRDERE S., Amoksisilinin Farklı Matrikslerde Yüksek Basıncılı Sıvı Kromatografi Sistemi İle Düşük Seviyelerde Tayini, Post Graduate, T.Unutkan(Student), 2016

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

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

- **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**
Zaman B. T. , Bakaraki Turan N., BAKIRDERE E. G. , Topal S., Sağsöz O., BAKIRDERE S.
Microchemical Journal, vol.157, 2020 (Journal Indexed in SCI Expanded)
- **Fe₃O₄/reduced graphene oxide nanocomposites based dispersive solid phase microextraction for trace determination of profenofos in white rice flour samples**
Bodur S., ERARPAT S., BAKIRDERE S.
Journal of Food Composition and Analysis, vol.91, 2020 (Journal Indexed in SCI Expanded)
- **A sensitive and accurate analytical method for the determination of cadmium in food samples: Molybdenum coated T-shape slotted quartz tube flame atomic absorption spectrophotometry**
Kasa N. A. , Büyükpınar Ç., Erulaş A. F. , BAKIRDERE S.
Food Chemistry, vol.319, 2020 (Journal Indexed in SCI)
- **Determination of iron in hair samples by slotted quartz tube-flame atomic absorption spectrometry after switchable solvent liquid phase extraction**
Atsever N., Borahan T., Gülhan Bakırdere E., BAKIRDERE S.
Journal of Pharmaceutical and Biomedical Analysis, vol.186, 2020 (Journal Indexed in SCI Expanded)
- **Reverse phase dispersive liquid-liquid microextraction coupled to slotted quartz tube flame atomic absorption spectrometry as a new analytical strategy for trace determination of cadmium in fish and olive oil samples**
Özzybek G., Şahin İ., ERARPAT S., BAKIRDERE S.
Journal of Food Composition and Analysis, vol.90, 2020 (Journal Indexed in SCI Expanded)

- **Feasibility studies on the uptake and bioaccessibility of pesticides, hormones and endocrine disruptive compounds in plants, and simulation of gastric and intestinal conditions**
Chormey D. S. , Ayyıldız M. F. , BAKIRDERE S.
Microchemical Journal, vol.155, 2020 (Journal Indexed in SCI)
- **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**
Balçık U., Chormey D. S. , Ayyıldız M. F. , BAKIRDERE S.
Microchemical Journal, vol.155, 2020 (Journal Indexed in SCI)
- **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**
Bodur S., ERARPAT S., GÜNKARA Ö. T. , Chormey D. S. , BAKIRDERE S.
Talanta, vol.213, 2020 (Journal Indexed in SCI)
- **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**
Bozyiğit G., Ayyıldız M. F. , Chormey D. S. , Engin G. O. , Bakırdere S.
Environmental Monitoring and Assessment, vol.192, 2020 (Journal Indexed in SCI)
- **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. B. , Ayyıldız M. F. , Chormey D. S. , BAKIRDERE S.
Environmental Monitoring and Assessment, vol.192, 2020 (Journal Indexed in SCI)
- **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**
Şaylan M., Zaman B. T. , Gülhan Bakırdere E., BAKIRDERE S.
Journal of Food Composition and Analysis, vol.88, 2020 (Journal Indexed in SCI)
- **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. Ö. , BAKIRDERE S.
Chemistry Letters, vol.49, pp.546-549, 2020 (Journal Indexed in SCI)
- **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**
Firat Ayyıldız M., Selin Fındıkoğlu M., Selali Chormey D., BAKIRDERE S.
Journal of Food Composition and Analysis, vol.88, 2020 (Journal Indexed in SCI)
- **A green, accurate and sensitive analytical method based on vortex assisted deep eutectic solvent-liquid phase microextraction for the determination of cobalt by slotted quartz tube flame atomic absorption spectrometry**
Tekin Z., Unutkan T., Erulaş F., Bakırdere E. G. , Bakırdere S.
Food Chemistry, vol.310, 2020 (Journal Indexed in SCI)
- **Analytical protocol for determination of endosulfan beta, protham, chlorpyrifos, and acibenzolar-s-methyl in lake water and wastewater samples by gas chromatography–mass spectrometry after dispersive liquid–liquid microextraction**
Bodur S., Özlü C., Tışlı B., Firat M., Chormey D. S. , BAKIRDERE S.
Environmental Monitoring and Assessment, vol.192, 2020 (Journal Indexed in SCI)
- **Peristaltic pump-assisted zirconium nanoparticle-based pipette-tip solid phase extraction for the determination of cobalt by slotted quartz tube-flame atomic absorption spectrophotometry**
Tekin Z., Borahan T., Özdoğan N., BAKIRDERE S.
Analytical Methods, vol.12, pp.1244-1249, 2020 (Journal Indexed in SCI)
- **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**

Ari B., Can S. Z. , BAKIRDERE S.

Talanta, vol.209, 2020 (Journal Indexed in SCI)

- **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.
Food Chemistry, vol.305, 2020 (Journal Indexed in SCI)
- **A sieve-conducted two-syringe-based pressurized liquid-phase microextraction for the determination of indium by slotted quartz tube-flame atomic absorption spectrometry**
UNUTKAN T., Borahan T., Girgin A., BAKIRDERE S.
Environmental Monitoring and Assessment, vol.192, 2020 (Journal Indexed in SCI)
- **Determination of fenazaquin in water and tomato matrices by GC-MS after a combined QuEChERS and switchable solvent liquid phase microextraction**
Turan N. B. , Maltepe E., Chormey D. S. , BAKIRDERE S.
Environmental Monitoring and Assessment, vol.192, 2020 (Journal Indexed in SCI)
- **A novel determination method for diuron in seaweed samples: Combination of quadruple isotope dilution strategy with liquid chromatography - quadrupole time of flight - tandem mass spectrometry for superior accuracy and precision**
Tekin Z., Öztürk E., Günkara Ö. T. , Bakirdere S.
Journal of Chromatography A, vol.1611, 2020 (Journal Indexed in SCI)
- **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, vol.53, pp.165-173, 2020 (Journal Indexed in SCI)
- **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.
Food Chemistry, vol.303, 2020 (Journal Indexed in SCI)
- **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**
Durak B. Y. , Sel S., BAKIRDERE S.
ANALYTICAL LETTERS, 2020 (Journal Indexed in SCI)
- **Determination of indium in lettuce samples using hydrogen supported-T-cut-slotted quartz tube-atom trap-flame atomic absorption spectrometry**
Kapukiran F., YILMAZ Ö., Tekin Z., Büyükpınar Ç., Özdoğan N., BAKIRDERE S.
Chemistry Letters, vol.49, pp.276-279, 2020 (Journal Indexed in SCI)
- **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**
Borahan T., UNUTKAN T., Zaman B. T. , BAKIRDERE E. G. , BAKIRDERE S.
Analytical Letters, 2020 (Journal Indexed in SCI Expanded)
- **Determination of Trace Element Concentrations in Blood Samples and Their Correlation to Breast Cancer**
TOPDAĞI Ö., TOKER O., BAKIRDERE S., ÖZ E., Bursalioglu E. O. , Abuqbeith M., Demir M., İÇELLİ O.
ATOMIC SPECTROSCOPY, vol.41, pp.29-35, 2020 (Journal Indexed in SCI)
- **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.
Environmental Monitoring and Assessment, vol.192, 2020 (Journal Indexed in SCI)
- **Simple, Sensitive, and Selective High Performance Liquid Chromatographic (HPLC) Method for the Determination of Buturon in Herbal Tea, Dried Blueberry, and Cranberry Samples and Evaluation of Its Stability in Gastric Conditions**

Özzeybek G., ERARPAT S., BAKIRDERE S.

Analytical Letters, 2020 (Journal Indexed in SCI)

- **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, 2020 (Journal Indexed in SCI)

- **Removal of Selected Micropollutants from Synthetic Wastewater by Electrooxidation Using Oxidized Titanium and Graphite Electrodes**

Turan N. B. , ÇAĞLAK A., BAKIRDERE S., Engin G. Ö.

Clean - Soil, Air, Water, 2020 (Journal Indexed in SCI Expanded)

- **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**

Er E., Akkaya E., Özbek B., Bakirdere S.

Microchemical Journal, vol.152, 2020 (Journal Indexed in SCI)

- **Feasibility Studies on the Effect of Natural Plant Compounds on Sludge Characteristics in a Batch-Type Aerobic Reactor and N-butyryl-L Homoserine Lactone**

Turan N. B. , Erkan H. S. , Chormey D. S. , ÇAĞLAK A., BAKIRDERE S., Engin G. O.

Analytical Letters, 2020 (Journal Indexed in SCI)

- **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.

Chemistry Letters, vol.49, pp.17-19, 2020 (Journal Indexed in SCI)

- **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., BAKIRDERE S.

Analytical Letters, 2020 (Journal Indexed in SCI)

- **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**

Yazıcı E., Firat M., Selali Chormey D., Gülhan Bakirdere E., Bakirdere S.

Food Chemistry, vol.302, 2020 (Journal Indexed in SCI)

- **Determination of Trace Amounts of Gold in Electroplating Rinsing Bath by Slotted Quartz Tube Flame Atomic Absorption Spectrometry with Matrix Matching Calibration Strategy after Preconcentration with Vortex Assisted Dispersive Liquid-Liquid Microextraction**

Terzioğlu D., Firat M., Chormey D. S. , BAKIRDERE S.

Analytical Letters, 2020 (Journal Indexed in SCI)

- **Zirconium nanoparticles based solid phase extraction-slotted quartz tube-flame atomic absorption spectrophotometry for the determination of cadmium in wastewater samples and evaluation of green profile**

Tekin Z., Özdoğan N., BAKIRDERE S.

International Journal of Environmental Analytical Chemistry, 2020 (Journal Indexed in SCI)

- **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 (Journal Indexed in SCI)

- **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.

Measurement: Journal of the International Measurement Confederation, vol.147, 2019 (Journal Indexed in SCI)

- **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.
Microchimica Acta, vol.186, 2019 (Journal Indexed in SCI)
- **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., Bakirdere S.
Food Chemistry, vol.299, 2019 (Journal Indexed in SCI)
- **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. , Bakirdere S.
Environmental Monitoring and Assessment, vol.191, 2019 (Journal Indexed in SCI)
- **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**
YILMAZ P., ÖZTÜRK ER E., BAKIRDERE S., Ülgen K., ÖZBEK B.
Journal of Materials Research and Technology, vol.8, pp.5201-5216, 2019 (Journal Indexed in SCI)
- **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. , Firat M., BAKIRDERE S.
Chemosphere, vol.235, pp.205-210, 2019 (Journal Indexed in SCI)
- **Radiation interaction parameters for blood samples of breast cancer patients: an MCNP study**
Toker O., Caglar M., Öz E., Bakirdere S., Topdağı Ö., Eyecioglu O., İçelli O.
RADIATION AND ENVIRONMENTAL BIOPHYSICS, vol.58, pp.531-537, 2019 (Journal Indexed in SCI)
- **Accurate and sensitive determination of lead in black tea samples using cobalt magnetic particles based dispersive solid-phase microextraction prior to slotted quartz tube-flame atomic absorption spectrometry**
Akkaya E., Erulas F. A. , Büyükpınar Ç., BAKIRDERE S.
Food Chemistry, vol.297, 2019 (Journal Indexed in SCI)
- **Determination of micropollutants in wastewater matrix using gas chromatography-mass spectrometry after optimization of dispersive liquid-liquid microextraction**
ÇAĞLAK A., Chormey D. S. , ENGİN G., BAKIRDERE S.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY, vol.16, pp.7285-7292, 2019 (Journal Indexed in SCI)
- **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.
Atomic Spectroscopy, vol.40, pp.233-237, 2019 (Journal Indexed in SCI Expanded)
- **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.
MEASUREMENT, vol.146, pp.606-612, 2019 (Journal Indexed in SCI)
- **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., Bakirdere S.
Environmental monitoring and assessment, vol.191, pp.692, 2019 (Journal Indexed in SCI)
- **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**
Firat M., Chormey D. S. , Bakirdere S., Turak F.
Environmental Monitoring and Assessment, vol.191, 2019 (Journal Indexed in SCI)
- **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)

İçelli O., Öz E., Bakırdere S., Nuroglu E.

ANALYTICAL LETTERS, 2019 (Journal Indexed in SCI)

- **Optimization of atrazine removal from synthetic groundwater by electrooxidation process using titanium dioxide and graphite electrodes**
BAKARAKI TURAN N., SARI ERKAN H., ÇAĞLAK A., BAKIRDERE S., ENGİN G.
Separation Science And Technology, pp.1-10, 2019 (Journal Indexed in SCI)
- **Binary dispersive liquid-liquid microextraction strategy for accurate and precise determination of micropollutants in lake, well and wastewater matrices**
SARI ERKAN H., CHORMEY D. S. , ÇAĞLAK A., DALGIÇ BOZYİĞİT G., MALTEPE E., ENGİN G., BAKIRDERE S.
Bulletin Of Environmental Contamination And Toxicology, pp.1-10, 2019 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **Development of a sensitive microextraction strategy for the accurate determination of tebuconazole and etrimfos by gas chromatography-mass spectrometry**
Akarcay N. A. , Chormey D. S. , Kasa N. A. , Zaman B. T. , Bakırdere S.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, 2019 (Journal Indexed in SCI)
- **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, vol.1, no.1, pp.1-16, 2019 (Journal Indexed in SCI)
- **Determination of Vitamin B12 and cobalt in egg yolk using vortex assisted switchable solvent based liquid phase microextraction prior to slotted quartz tube flame atomic absorption spectrometry**
Tekin Z., ERARPAT S., Şahin A., Chormey D. S. , BAKIRDERE S.
FOOD CHEMISTRY, vol.286, pp.500-505, 2019 (Journal Indexed in SCI)
- **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, pp.848-853, 2019 (Journal Indexed in SCI)
- **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, 2019 (Journal Indexed in SCI)
- **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 (Journal Indexed in SCI)
- **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.
MICROCHEMICAL JOURNAL, vol.146, pp.1190-1194, 2019 (Journal Indexed in SCI)
- **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, 2019 (Journal Indexed in SCI)

- Ultrasound assisted deep eutectic solvent based microextraction-slotted quartz tube-flame atomic absorption spectrometry for the determination of cadmium**
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- **Determination of Cadmium in Aqueous Samples Using a Sensitive Closed Batch Vessel Hydride Generation Atomic Absorption Spectrometry Method**

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- **Novel analytical strategies for the accurate and sensitive determination of the environmental contaminants**

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- Quadrupole Isotope Dilution Mass Spectrometry-Dispersive Liquid-Liquid Microextraction Using Multivariate Optimization: A Novel Analytical Approach for the Determination of Parathion Methyl in Water**
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