

Prof. Sezgin BAKIRDERE

Personal Information

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Education Information

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

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

Undergraduate, 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

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

Research Areas

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

Academic Titles / Tasks

Professor, Yıldız 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

Academic and Administrative Experience

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

Yıldız Teknik Üniversitesi, Bilim Ve Teknoloji Uygulama Ve Araştırma Merkezi, 2016 - Continues

Yıldız Teknik Üniversitesi, Rectorate, 2016 - Continues

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

doğruluk ve duyarlılıkla eşzamanlı tayinleri, Postgraduate, F.KAPUKIRAN(Student), 2019

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

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

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

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

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

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

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

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

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

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

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

- I. **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**
BÜYÜKPINAR Ç., Yazıcı E., SAN N., KOMESLİ O. T. , BAKIRDERE S.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.193, no.10, 2021 (Journal Indexed in SCI)
- II. **Arsenic speciation in rice samples for trace level determination by high performance liquid chromatography-inductively coupled plasma-mass spectrometry**
Kara S., Chormey D. S. , Saygilar A., BAKIRDERE S.
FOOD CHEMISTRY, vol.356, 2021 (Journal Indexed in SCI)
- III. **Surface modified iron magnetic nanoparticles assisted Fenton digestion and extraction method for cadmium determination**
Ayyıldız M. F. , Saylan M., DALGIÇ BOZYIĞİT G., Chormey D. S. , ÖZDEMİR O. K. , BÜYÜKPINAR Ç., BAKIRDERE S.
ANALYTICAL BIOCHEMISTRY, vol.629, 2021 (Journal Indexed in SCI)
- IV. **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**
Öner M., Bodur S., Demir C., Yazıcı E., ERARPAT S., BAKIRDERE S.
Journal of Food Composition and Analysis, vol.101, 2021 (Journal Indexed in SCI)
- V. **Preconcentration of tellurium using magnetic hydrogel-assisted dispersive solid-phase extraction and its determination by slotted quartz tube-flame atomic absorption spectrophotometry**
Demir C., ÖZTÜRK ER E., Kartoglu B., Atsever N., YAĞCI Ö., Oner M., BAKIRDERE S.
CHEMICAL PAPERS, vol.75, no.8, pp.4261-4267, 2021 (Journal Indexed in SCI)
- VI. **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**
Yildirmaz B. B. , Gölcü A., Zaman B. T. , Kasa N. A. , BAKIRDERE E. G. , BAKIRDERE S.
CHEMICAL PAPERS, vol.75, pp.4157-4164, 2021 (Journal Indexed in SCI)
- VII. **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

ERARPAT S., Bodur S., Oner M., GÜNKARA Ö. T. , BAKIRDERE S.

JOURNAL OF CHROMATOGRAPHY A, vol.1651, 2021 (Journal Indexed in SCI)

- VIII. **A Sensitive Microextraction Method Using Effervescence Tablets to Disperse Fe₃O₄ Nanoparticles for Cadmium Determination in Lake Water Samples**
Borahan T., Karlidag N. E. , Zaman B. T. , BAKIRDERE S.
CHEMISTRYSELECT, vol.6, no.26, pp.6797-6802, 2021 (Journal Indexed in SCI)
- IX. **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**
Yaman B., Zaman B. T. , BAKIRDERE S., DİLGİN Y.
ELECTROANALYSIS, 2021 (Journal Indexed in SCI)
- X. **Zirconium Nanoparticles Based Vortex Assisted Ligandless Dispersive Solid Phase Extraction for Trace Determination of Lead in Domestic Wastewater using Flame Atomic Absorption Spectrophotometry**
Ay E., Tekin Z., ÖZDOĞAN N., BAKIRDERE S.
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, 2021 (Journal Indexed in SCI)
- XI. **Serum Levels of Selected Elements in Patients with Beta Thalassemia Major**
Sahin A., Er E. O. , ÖZ E., Yildirmak Z. Y. , BAKIRDERE S.
BIOLOGICAL TRACE ELEMENT RESEARCH, 2021 (Journal Indexed in SCI)
- XII. **Atrazine: From Detection to Remediation - A Minireview**
Bakaraki Turan N., Zaman B. T. , Chormey D. S. , Onkal Engin G., BAKIRDERE S.
ANALYTICAL LETTERS, 2021 (Journal Indexed in SCI)
- XIII. **Accurate and sensitive determination of hydroxychloroquine sulfate used on COVID-19 patients in human urine, serum and saliva samples by GC-MS**
Bodur S., ERARPAT S., GÜNKARA Ö. T. , BAKIRDERE S.
Journal of Pharmaceutical Analysis, vol.11, pp.278-283, 2021 (Journal Indexed in SCI)
- XIV. **An accurate analytical method for the determination of cadmium: Ultraviolet based photochemical vapor generation-slotted quartz tube based atom trap-flame atomic absorption spectrophotometry**
BÜYÜKPINAR Ç., Bodur S., Yazici E., Tekin Z., SAN N., KOMESLİ O. T. , BAKIRDERE S.
MEASUREMENT, vol.176, 2021 (Journal Indexed in SCI)
- XV. **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**
Özcan R., Cesur B., Tezgit E., Unutkan Gösterişli T., BAKIRDERE S.
Food Chemistry, vol.342, 2021 (Journal Indexed in SCI)
- XVI. **Accurate Quantification of Nervous System Drugs in Aqueous Samples at Trace Levels by Binary Solvent Dispersive Liquid-Liquid Microextraction-Gas Chromatography Mass Spectrometry**
Dalgic Bozyigit G., Firat Ayyildiz M., Selali Chormey D., Onkal Engin G., Bakirdere S.
ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY, 2021 (Journal Indexed in SCI)
- XVII. **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)**
Chormey D. S. , Tonbul G., Soylu G., Saygilar A., BAKIRDERE S.
ANALYTICAL LETTERS, 2021 (Journal Indexed in SCI)
- XVIII. **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**
ÖZTÜRK ER E., ÖZBEK B., BAKIRDERE S.

Journal of Chromatography A, vol.1641, 2021 (Journal Indexed in SCI)

- XIX. A rapid, sensitive and accurate determination of cobalamin with double monitoring system: HPLC-UV and HPLC-ICP-OES**
Bodur S., Erarpat S., Balçık U., Bakırdere S.
Food Chemistry, vol.340, 2021 (Journal Indexed in SCI)
- XX. A Simple and Efficient Extraction Method for the Preconcentration of Copper in Tap Water and Linden Tea Samples Prior to FAAS Measurement**
Demir C., Oner M., Bodur S., Er E. O. , BAKIRDERE S.
CHEMISTRYSELECT, vol.6, no.12, pp.2906-2912, 2021 (Journal Indexed in SCI)
- XXI. An accurate analytical method for the determination of antimony in tea and tap water samples: photochemical vapor generation-atom trapping prior to FAAS measurement**
Yazıcı E., BÜYÜKPINAR Ç., Bodur S., SAN N., KOMESLİ O. T. , BAKIRDERE S.
CHEMICAL PAPERS, 2021 (Journal Indexed in SCI)
- XXII. Development of an easy and rapid analytical method for the extraction and preconcentration of chloroquine phosphate from human biofluids prior to GC-MS analysis**
Bodur S., Erarpat S., Günkara Ö. T. , Bakırdere S.
Journal of Pharmacological and Toxicological Methods, vol.108, 2021 (Journal Indexed in SCI)
- XXIII. Sodium, Magnesium, Calcium, Manganese, Iron, Copper, and Zinc in Serums of Beta Thalassemia Major Patients**
Şahin A., Er E., Öz E., Yıldırım Z. Y. , Bakırdere S.
Biological Trace Element Research, vol.199, no.3, pp.888-894, 2021 (Journal Indexed in SCI Expanded)
- XXIV. Cloud point extraction-slotted quartz tube with four-exit holes-flame atomic absorption spectrometry combination for the determination of cobalt at trace levels in fennel tea samples after complexation with a Schiff base ligand**
ozcan R., Kasa N. A. , BAKIRDERE E. G. , BAKIRDERE S.
JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION, 2021 (Journal Indexed in SCI)
- XXV. 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**
Atsever N., Borahan T., Girgin A., Chormey D. S. , BAKIRDERE S.
MICROCHEMICAL JOURNAL, vol.162, 2021 (Journal Indexed in SCI)
- XXVI. Implementation of a spraying-assisted fine droplet formation-based simultaneous liquid-phase microextraction method for the determination of copper in clove extract samples**
Bakaraki Turan N., Zaman B. T. , Arvas B., Yolaçan Ç., Bakırdere S.
CHEMICAL PAPERS, 2021 (Journal Indexed in SCI)
- XXVII. 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**
Borahan T., Zaman B. T. , Polat B. S. A. , BAKIRDERE E. G. , BAKIRDERE S.
ANALYTICAL METHODS, vol.13, no.5, pp.703-711, 2021 (Journal Indexed in SCI)
- XXVIII. 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**
Borahan T., Zaman B. T. , Ozzeybek G., BAKIRDERE S.
CHEMICAL PAPERS, 2021 (Journal Indexed in SCI)
- XXIX. A miniaturized spray-assisted fine-droplet-formation-based liquid-phase microextraction method for the simultaneous determination of fenpiclonil, nitrofen and fenoxaprop-ethyl as pesticides in soil samples**
Turan N. B. , BAKIRDERE S.
Rapid Communications in Mass Spectrometry, vol.35, no.1, 2021 (Journal Indexed in SCI)
- XXX. Nanoparticles Based Extraction Strategies for Accurate and Sensitive Determination of Different**

Pesticides

Erarpat S., Bodur S., Bakirdere S.

CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY, 2021 (Journal Indexed in SCI)

- XXXI. **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, vol.104, no.1, pp.91-97, 2021 (Journal Indexed in SCI)
- XXXII. **Effervescence-assisted liquid phase microextraction prior to slotted quartz tube-flame atomic absorption spectrometry for cadmium determination in domestic wastewater samples**
Borahan T., Karlıdağ N. E. , YAĞCI Ö., BAKIRDERE S.
Chemical Papers, 2021 (Journal Indexed in SCI Expanded)
- XXXIII. **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.
Environmental Monitoring and Assessment, vol.193, no.1, 2021 (Journal Indexed in SCI)
- XXXIV. **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)₂ assisted ID3MS by triple quadrupole ICP-MS/MS**
Arı B., BAKIRDERE S.
Analytica Chimica Acta, vol.1140, pp.178-189, 2020 (Journal Indexed in SCI)
- XXXV. **Determination of fipronil and bixafen pesticides residues using gas chromatography mass spectroscopy with matrix matching calibration strategy after binary dispersive liquid-liquid microextraction**
Ozcan R., Buyukpinar C., BAKIRDERE S.
JOURNAL OF ENVIRONMENTAL SCIENCE AND HEALTH PART B-PESTICIDES FOOD CONTAMINANTS AND AGRICULTURAL WASTES, vol.55, no.12, pp.1041-1047, 2020 (Journal Indexed in SCI)
- XXXVI. **Accurate, sensitive determination of omega-6 and omega-3 polyunsaturated fatty acids in human plasma, urine samples**
Öztürk Er E., Sahin A., Bakirdere S.
Biomedical Chromatography, vol.34, 2020 (Journal Indexed in SCI Expanded)
- XXXVII. **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.
Journal of Food Composition and Analysis, vol.94, 2020 (Journal Indexed in SCI)
- XXXVIII. **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**
Bodur S., Erarpat S., Dalgıç Bozyiğit G., Selali Chormey D., Öz E., Özdoğan N., Bakirdere S.
Microchemical Journal, vol.159, 2020 (Journal Indexed in SCI)
- XXXIX. **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, vol.53, no.17, pp.2748-2760, 2020 (Journal Indexed in SCI)
- XL. **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**
Ebrar K., Seda K., Toprak M., Yilmaz O., Bakirdere S.
FOOD CHEMISTRY, vol.329, 2020 (Journal Indexed in SCI)

- XLI. 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, vol.35, no.11, pp.2565-2572, 2020 (Journal Indexed in SCI)
- XLII. 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, vol.158, 2020 (Journal Indexed in SCI)
- XLIII. 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**
Şaylan M., Er E., Tekin Z., BAKIRDERE S.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.239, 2020 (Journal Indexed in SCI)
- XLIV. 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., Chormey D. S. , Çağlak A., Bakirdere S., Engin G.
ANALYTICAL LETTERS, vol.53, no.15, pp.2431-2444, 2020 (Journal Indexed in SCI)
- XLV. Accurate and simple determination of oxcarbazepine in human plasma and urine samples using switchable-hydrophilicity solvent in GC-MS**
Erarpat S., Bodur S., Ayyıldız M. F. , Günkara Ö. T. , Erulaş F., Chormey D. S. , Turak F., Budak T., Bakirdere S.
BIOMEDICAL CHROMATOGRAPHY, vol.34, no.10, 2020 (Journal Indexed in SCI)
- XLVI. 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**
Dikmen Y., Guleryuz A., Metin B., Bodur S., Oner M., BAKIRDERE S.
JOURNAL OF MASS SPECTROMETRY, vol.55, no.10, 2020 (Journal Indexed in SCI)
- XLVII. 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**
Yazici E., BÜYÜKPINAR Ç., Bodur S., SAN N., KOMESLİ O. T. , BAKIRDERE S.
CHEMICAL PAPERS, 2020 (Journal Indexed in SCI)
- XLVIII. Simultaneous Determination of Harmful Aromatic Amine Products of Azo Dyes by Gas Chromatography-Mass Spectrometry**
Chormey D. S. , Zaman B. T. , Maltepe E., BÜYÜKPINAR Ç., BULGURCUOĞLU A. E. , TURAK F., ERULAŞ F. A. , BAKIRDERE S.
JOURNAL OF ANALYTICAL CHEMISTRY, vol.75, no.10, pp.1330-1334, 2020 (Journal Indexed in SCI)
- XLIX. 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, vol.53, no.14, pp.2191-2201, 2020 (Journal Indexed in SCI)
- L. Sensitive Determination of Acetochlor, Alachlor, Metolachlor and Fenthion Utilizing Mechanical Shaking Assisted Dispersive Liquid-Liquid Microextraction Prior to Gas Chromatography-Mass Spectrometry**
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