

## Prof. Dr. RAMAZAN GÜRKAN

### Kişisel Bilgiler

İş Telefonu: [+90 346 219 1010](tel:+903462191010) Dahili: 2136

Fax Telefonu: [+90 346 219 1186](tel:+903462191186)

E-posta: [rgurkan@cumhuriyet.edu.tr](mailto:rgurkan@cumhuriyet.edu.tr)

Web: <https://avesis.cumhuriyet.edu.tr/rgurkan>

Posta Adresi: C.Ü. Fen Fak. Kimya Böl. Analitik Kimya A.B.D. 58140 Sivas/Türkiye

### Uluslararası Araştırmacı ID'leri

ORCID: 0000-0003-0938-7697

Yoksis Araştırmacı ID: 55412

### Eğitim Bilgileri

Doktora, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, Türkiye 1998 - 2002

Yüksek Lisans, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, Türkiye 1995 - 1998

Lisans, Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Kimya, Türkiye 1981 - 1985

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Sertifika, Kurs ve Eğitimler

Kalite Yönetimi, Yöntem geçerliliği ve ölçüm belirsizliği, II. Eser Analiz Çalıştayı, Trabzon, 2012

### Yaptığı Tezler

Doktora, Selenyumun katalizlediği (indikatör-redoks) tepkimelere dayalı olarak eser derişimde selenyumun kinetik-spektrofotometrik yöntemle belirlenmesi, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2002

Yüksek Lisans, Bazı metal komplekslerinin TLC/IR birleşik sistemi ile tuz kaması yöntemi kullanılarak ayrılması ve tanısı, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 1997

### Araştırma Alanları

Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2014 - Devam Ediyor

Doç. Dr., Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2009 - 2014

Dr. Öğr. Üyesi, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2004 - 2009

Araştırma Görevlisi Dr., Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2002 - 2004  
Araştırma Görevlisi, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 1995 - 2002

## Akademik İdari Deneyim

Anabilim/Bilim Dalı Başkanı, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2020 - Devam Ediyor  
Anabilim/Bilim Dalı Başkanı, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2017 - 2020  
Bölüm Başkan Yardımcısı, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2008 - 2010

## Verdiği Dersler

Analitik Kimya-I, Lisans, 2019 - 2020  
Enstrümental Analiz Lab, Lisans, 2018 - 2019  
Analitik Kimyanın İlkeleri, Yüksek Lisans, 2019 - 2020  
Tez Çalışması, Yüksek Lisans, 2018 - 2019  
Uzmanlık Alan Dersi, Yüksek Lisans, 2018 - 2019  
Analitik Kimyanın İlkeleri, Yüksek Lisans, 2019 - 2020  
Analitik kimya Lab. - I, Lisans, 2019 - 2020  
Enstrümental Analiz, Lisans, 2018 - 2019  
Genel Kimya II, Lisans, 2017 - 2018  
Genel Kimya, Lisans, 2018 - 2019  
Seminer Dersi, Doktora, 2017 - 2018  
Kimyasal Türleme, Yüksek Lisans, 2016 - 2017  
Misel-Destekli Ekstraksiyon, Yüksek Lisans, 2017 - 2018  
Elektroanalitik Kimya, Lisans, 2017 - 2018  
Kimyasal Enstrümantasyon, Lisans, 2016 - 2017  
Bitirme Ödevi/Tezi, Lisans, 2016 - 2017  
Seminer Dersi, Yüksek Lisans, 2015 - 2016  
Analitik Kimyada İyonik Sıvılar, Yüksek Lisans, 2015 - 2016  
Uzmanlık Alan Dersi, Doktora, 2015 - 2016  
Genel Kimya Lab.I, Lisans, 2015 - 2016  
Genel Kimya Laboratuvarı I, Lisans, 2014 - 2015  
Genel Kimya I, Lisans, 2014 - 2015  
Genel Kimya - II, Lisans, 2013 - 2014  
Enstrümental Analiz, Lisans, 2013 - 2014  
Genel Kimya - I, Lisans, 2013 - 2014  
Elektroanalitik Kimya, Lisans, 2012 - 2013  
Su Kimyası, Lisans, 2011 - 2012  
Analitik kimyada iyonik sıvılar, Yüksek Lisans, 2012 - 2013  
Su Kimyası, Lisans, 2011 - 2012  
Kinetik Analiz, Yüksek Lisans, 2010 - 2011  
Kimyasal Enstrümantasyon, Lisans, 2010 - 2011  
Atomik Spektrometri Örnek Girişinde Yüzey Aktif Yapılandırılmış Yapılar, Yüksek Lisans, 2010 - 2011  
Enstrümental Analiz Lab., Lisans, 2010 - 2011  
Genel Kimya-I, Lisans, 2010 - 2011  
Su Kimyası, Lisans, 2009 - 2010  
Tekstil Kimyası, Ön Lisans, 2008 - 2009  
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Genel Kimya - III (Analitik Kimya), Lisans, 2007 - 2008  
Çevre Kimyasına Giriş, Lisans, 2006 - 2007  
Genel Kimya, Lisans, 2004 - 2005  
Kimya III, Lisans, 2005 - 2006  
Analitik Kimya, Lisans, 2005 - 2006  
Kimya-I, Lisans, 2004 - 2005  
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## Jüri Üyelikleri

Akademik Kadroya Atama-Yardımcı Doçentlik, Akademik Kadroya Atama, Sivas Cumhuriyet Üniversitesi, Ocak, 2020  
Tez Savunma (Doktora), Tez Savunma (Doktora), Tokat Gaziosmanpaşa Üniversitesi, Eylül, 2019  
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Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Tokat Gaziosmanpaşa Üniversitesi, Aralık, 2017  
Doçentlik Sınavı, Doçentlik Sınavı, Sivas Cumhuriyet Üniversitesi, Ekim, 2017  
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Doçentlik Sınavı, Doçentlik Sınavı, Sivas Cumhuriyet Üniversitesi, Ocak, 2015  
Akademik Kadroya Atama-Yardımcı Doçentlik, Akademik Kadroya Atama, Sivas Cumhuriyet Üniversitesi, Mayıs, 2014

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

- I. **Pre-concentration of trace Mn from dairy products through a pH-induced tautomerization/charge transfer complexation before spectrophotometric analysis**  
GÜRKAN R., ZENGİN H.  
Chemical Papers, cilt.78, sa.5, ss.2915-2931, 2024 (SCI-Expanded)
- II. **A new pre-concentration procedure based on poly(styrene-co-maleamide and imide) copolymers modified with 2-hydrazinobenzothiazole prior to spectrophotometric monitoring of inorganic As (as As(III)) in edible vegetable oils**  
GÜRKAN R., ZENGİN H.  
Food Chemistry, cilt.409, 2023 (SCI-Expanded)
- III. **Application of ultrasound assisted-cloud point extraction coupled with spectrophotometry for the selective extraction/pre-concentration of low levels of inorganic Hg (as Hg<sup>2+</sup>/Hg<sup>2+</sup>) from liquid matrices**  
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- IV. **Novel amide- and imide-co-polymers modified with sulfathiazole as efficient chelator for selective extraction, pre-concentration and determination of trace inorganic antimony (as Sb(III)) from edible vegetable oils by ultrasound assisted-cloud point extraction coupled to micro-volume UV-spectrophotometry**  
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- V. **pH-controlled charge transfer sensitive 2-aminobenzimidazole modified poly(styrene-co-maleic anhydride) copolymer for selective extraction, pre-concentration and determination of trace Hg<sup>2+</sup> and CH<sub>3</sub>Hg<sup>+</sup> in vinegar by combination of ultrasound assisted-cloud point extraction with UV-VIS spectrophotometry**  
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- VI. **An indirect method for the analysis of bisphenol A, as a Mn(III)-chelate complex, in milk samples by ultrasound assisted-cloud point extraction/flame atomic absorption spectrometry**  
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ANALYTICAL METHODS, cilt.14, sa.26, ss.2596-2607, 2022 (SCI-Expanded)
- VII. **A magnetic nanocomposite based on amine-functionalized pH-sensitive functional poly(styrene-co-maleic anhydride) copolymer for selective extraction, pre-concentration and determination of sub-trace Ag<sup>+</sup> and Cu<sup>2+</sup> ions from edible vegetable oils by a combination of spectrophotometry and ultrasound-assisted cloud point extraction**  
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JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, cilt.19, sa.5, ss.1669-1688, 2022 (SCI-Expanded)
- VIII. **A New Enrichment Method for Quantification of 5-Hydroxymethylfurfural by Indirect Flame Atomic Absorption Spectrometry in Honey and Jam Samples**  
GÜRKAN R.  
JOURNAL OF AOAC INTERNATIONAL, cilt.104, sa.3, ss.682-692, 2021 (SCI-Expanded)
- IX. **Eco-friendly trace analysis of silver in beer/wine samples using a new co-polymeric nanocomposite based-ultrasound assisted-cloud point extraction combined with spectrophotometry**  
ZENGİN H., GÜRKAN R.  
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, cilt.98, 2021 (SCI-Expanded)
- X. **Application of a novel poly(SMAm)-Tris-Fe<sub>3</sub>O<sub>4</sub> nanocomposite for selective extraction and enrichment of Cu(I) /Cu(II) from beer, soft drinks and wine samples, and speciation analysis by micro-volume UV-Vis spectrophotometry**  
ZENGİN H., GÜRKAN R.  
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- XI. **Selective extraction and enrichment of 5-hydroxymethylfurfural from honey, molasses, jam and vinegar samples prior to sensitive determination by micro-volume UV-vis spectrophotometry**  
Bas S. D., GÜRKAN R.  
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, cilt.95, 2021 (SCI-Expanded)
- XII. **Bio-sorption of bisphenol a by the dried- and inactivated-lichen (Pseudoevernia furfuracea) biomass from aqueous solutions**  
Senol Z. M., Gul U. D., GÜRKAN R.  
JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, cilt.18, sa.2, ss.853-864, 2020 (SCI-Expanded)
- XIII. **Coupling of ion pair ultrasound assisted-cloud point extraction to microvolume UV-Vis spectrophotometry for speciation analysis of ionic NO<sub>2</sub><sup>-</sup>, NO<sub>3</sub><sup>-</sup> and total NO<sub>2</sub><sup>-</sup>/NO<sub>3</sub><sup>-</sup> without and with reduction in the selected beverage and food matrices**  
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- XIV. **Selective extraction of Cu<sup>+</sup> and Cu<sup>2+</sup> ions from mushroom and lichen samples prior to analysis by micro-volume UV-Vis spectrophotometry: Application of a novel poly (SMIm)-Tris-Fe<sub>3</sub>O<sub>4</sub> nanocomposite**  
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- XV. **Preparation and application of alcohol based deep eutectic solvents for extraction of curcumin in food samples prior to its spectrophotometric determination**  
Altunay N., Elik A., Gürkkan R.  
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- XVI. **Manganese sensitised-indirect determination of melamine in milk-based samples by flame atomic absorption spectrometry coupled with ultrasound assisted-cloud point extraction**  
Gürkkan R., Kartal Temel N.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, cilt.100, sa.2, ss.152-174, 2020 (SCI-

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- XVII. **Application of Ultrasound-Assisted Cloud-Point Extraction and Spectrophotometry for Preconcentration and Determination of Trace Amounts of Copper(II) in Beverages**  
Temel N. K., GÜRKAN R.  
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- XVIII. **A new ion-pair ultrasound assisted-cloud point extraction approach for determination of trace V(V) and V(IV) in edible vegetal oils and vinegar by spectrophotometry**  
Temel N., Kus B., GÜRKAN R.  
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- XIX. **Use of 2-Hydrazinobenzothiazole-Modified Copolymer(s) as Potential Chelating Agent for Sensitive and Selective Determination of Low Levels of Mercury in Seafood by Ultrasound-Assisted Cloud-Point Extraction Combined with Spectrophotometry**  
ZENGİN H., GÜRKAN R.  
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- XX. **A novel, green and safe ultrasound-assisted emulsification liquid phase microextraction based on alcohol-based deep eutectic solvent for determination of patulin in fruit juices by spectrophotometry**  
Altunay N., Elik A., Gürkan R.  
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- XXI. **A Simple and Green Microextraction Procedure for Extraction of Morin in Food and Beverages Using Ionic Liquid**  
ALTUNAY N., ELİK A., GÜRKAN R.  
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- XXII. **Natural deep eutectic solvent-based ultrasound-assisted-microextraction for extraction, pre-concentration and analysis of methylmercury and total mercury in fish and environmental waters by spectrophotometry**  
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- XXIII. **Ion pair vortex assisted-ionic liquid based dispersive liquid-liquid microextraction for selective separation and preconcentration of 4-methylimidazole from caramel colour drinks and foodstuffs prior to its spectrophotometric determination**  
ALTUNAY N., GÜRKAN R.  
MICROCHEMICAL JOURNAL, cilt.147, ss.999-1009, 2019 (SCI-Expanded)
- XXIV. **Monitoring of some trace metals in honeys by flame atomic absorption spectrometry after ultrasound assisted-dispersive liquid liquid microextraction using natural deep eutectic solvent**  
Altunay N., Elik A., Gürkan R.  
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- XXV. **Vortex assisted-ionic liquid based dispersive liquid liquid microextraction of low levels of nickel and cobalt in chocolate-based samples and their determination by FAAS**  
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MICROCHEMICAL JOURNAL, cilt.147, ss.277-285, 2019 (SCI-Expanded)
- XXVI. **Development of a new analytical method for Pb preconcentration and its further determination in water and foodstuffs using relatively low-sensitivity flame atomic absorption spectrometry**  
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INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, cilt.99, sa.10, ss.977-995, 2019 (SCI-Expanded)
- XXVII. **Preconcentration and Determination of Trace Nickel and Cobalt in Milk-Based Samples by Ultrasound-Assisted Cloud Point Extraction Coupled with Flame Atomic Absorption Spectrometry**  
Temel N., Sertakan K., GÜRKAN R.  
BIOLOGICAL TRACE ELEMENT RESEARCH, cilt.186, sa.2, ss.597-607, 2018 (SCI-Expanded)

- XXVIII. **Combination of Ultrasound-Assisted Cloud-Point Extraction with Spectrophotometry for Extraction, Preconcentration, and Determination of Low Levels of Free Formaldehyde from Cosmetic Products**  
Temel N., GÜRKAN R.  
JOURNAL OF AOAC INTERNATIONAL, cilt.101, sa.6, ss.1763-1772, 2018 (SCI-Expanded)
- XXIX. **A new method of UA\_CPE coupled with spectrophotometry for the faster and cost-effective detection of proline in fruit juice, honey, and wine**  
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FOOD CHEMISTRY, cilt.255, ss.31-40, 2018 (SCI-Expanded)
- XXX. **Preconcentration and indirect quantification of trace nitrite, nitrate and total nitrite in selected beverage and milk samples using ion-pairing cloud-point extraction with acridine orange's**  
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JOURNAL OF FOOD COMPOSITION AND ANALYSIS, cilt.69, ss.129-139, 2018 (SCI-Expanded)
- XXXI. **Extraction and preconcentration of trace Al and Cr from vegetable samples by vortex-assisted ionic liquid-based dispersive liquid-liquid microextraction prior to atomic absorption spectrometric determination**  
ALTUNAY N., Yildirim E., GÜRKAN R.  
FOOD CHEMISTRY, cilt.245, ss.586-594, 2018 (SCI-Expanded)
- XXXII. **Preconcentration and Determination of Trace Vanadium(V) in Beverages by Combination of Ultrasound Assisted-cloud Point Extraction with Spectrophotometry**  
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- XXXIII. **Simple and fast spectrophotometric determination of low levels of thiabendazole residues in fruit and vegetables after pre-concentration with ionic liquid phase microextraction**  
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- XXXIV. **Application of simple, fast and eco-friendly ultrasound-assisted-cloud point extraction for pre-concentration of zinc, nickel and cobalt from foods and vegetables prior to their flame atomic absorption spectrometric determinations**  
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- XXXV. **Extraction and reliable determination of acrylamide from thermally processed foods using ionic liquid-based ultrasound-assisted selective microextraction combined with spectrophotometry**  
ALTUNAY N., ELİK A., GÜRKAN R.  
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- XXXVI. **Using Safranin T as a Charge Transfer-Sensitive Ion-Pairing Reagent in Ultrasound-Assisted Cloud Point Extraction: Determination of Bisphenol A in Selected Beverages**  
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- XXXVII. **Ionic liquid based ion-pairing microextraction combined with spectrophotometry for preconcentration and quantitation of melamine in milk and milk-based products**  
ALTUNAY N., Demir O., GÜRKAN R.  
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- XXXVIII. **Extraction, Preconcentration, and Quantification of Low Levels of Free Formaldehyde from Some Beverage Matrices by Combination of Ultrasound-Assisted-Cloud Point Extraction with Spectrophotometry**  
Temel N., GÜRKAN R.  
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- XXXIX. **Indirect determination of the flavor enhancer maltol in foods and beverages through flame atomic**

**absorption spectrometry after ultrasound assisted-cloud point extraction**

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- XL. **Ionic liquid based ion-pairing microextraction combined with spectrophotometry for preconcentration and quantitation of melamine in milk and milk-based products**  
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- XLII. **Development of a New Methodology for Indirect Determination of Nitrite, Nitrate, and Total Nitrite in the Selected Two Groups of Foods by Spectrophotometry**  
ALTUNAY N., GÜRKAN R., Olgac E.  
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- XLIII. **A New Ultrasonic Thermostatic-Assisted Cloud Point Extraction/Spectrophotometric Method for the Preconcentration and Determination of Bisphenol A in Food, Milk, and Water Samples in Contact with Plastic Products**  
Yildirim E., GÜRKAN R., ALTUNAY N.  
FOOD ANALYTICAL METHODS, cilt.10, sa.6, ss.1765-1776, 2017 (SCI-Expanded)
- XLIV. **Extraction, preconcentration and spectrophotometric determination of trace levels of thiosulfate in environmental waters**  
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JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, cilt.14, sa.5, ss.1033-1049, 2017 (SCI-Expanded)
- XLV. **A micellar sensitized kinetic method for quantification of low levels of bisphenol A in foodstuffs by spectrophotometry**  
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- XLVI. **Speciative determination of total V and dissolved inorganic vanadium species in environmental waters by catalytic-kinetic spectrophotometric method**  
GÜRKAN R., Tamay A., ULUSOY H. İ.  
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- XLVII. **Simultaneous determination of dissolved inorganic chromium species in wastewater/natural waters by surfactant sensitized catalytic kinetic spectrophotometry**  
GÜRKAN R., ULUSOY H. İ., Akçay M.  
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- XLVIII. **Determination of sub-ng g(-1) levels of total inorganic arsenic and selenium in foods by hydride-generation atomic absorption spectrometry after pre-concentration**  
ALTUNAY N., GÜRKAN R.  
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- XLIX. **A preconcentration method for indirect determination of acrylamide from chips, crackers and cereal-based baby foods using flame atomic absorption spectrometry**  
ALTUNAY N., GÜRKAN R., Orhan U.  
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- L. **Separation/preconcentration of ultra-trace levels of inorganic Sb and Se from different sample matrices by charge transfer sensitized ion-pairing using ultrasonic-assisted cloud point extraction prior to their speciation and determination by hydride generation AAS**  
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- L. **Application of ultrasonic-assisted cloud point extraction/flame atomic absorption spectrometry (UA-CPE/FAAS) for preconcentration and determination of low levels of antimony in some beverage samples**  
GÜRKAN R., Eser M.  
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- LI. **Preconcentration and determination of vanadium and molybdenum in milk, vegetables and foodstuffs by ultrasonic-thermostatic-assisted cloud point extraction coupled to flame atomic absorption spectrometry**  
GÜRKAN R., Korkmaz S., ALTUNAY N.  
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- LII. **A simple and efficient ultrasonic-assisted extraction procedure combined with UV-Vis spectrophotometry for the pre-concentration and determination of folic acid (vitamin B-9) in various sample matrices**  
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- LIII. **A Simple, Low-Cost, and Useful Preconcentration Method for Quantification of Soluble, Insoluble, and Total Oxalate in Selected Vegetables Through Spectrophotometry**  
ALTUNAY N., GÜRKAN R.  
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- LIV. **A New Micellar Mediated Cloud-Point Extraction Procedure for Sensitive and Selective Determination of Trace Amounts of Total Iodine in Milk-Based Nutritional Products by Means of Indirect Spectrophotometry**  
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- LV. **A new simple UV-Vis spectrophotometric method for determination of sulfite species in vegetables and dried fruits using a preconcentration process**  
ALTUNAY N., GÜRKAN R.  
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- LVI. **A simple and efficient approach for preconcentration of some heavy metals in cosmetic products before their determinations by flame atomic absorption spectrometry**  
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- LVII. **Photocatalytic TiO<sub>2</sub>-catalyzed degradation of bromophenol blue-mediated Mo(VI)-peroxo complexes in the presence of SDS**  
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## **Akademi Dışı Deneyim**

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