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### 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  
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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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Kimyasal Türleme, Yüksek Lisans, 2009 - 2010

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Elektroanalitik Kimya, Lisans, 2009 - 2010  
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**  
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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**  
ZENGİN H., Marsan H., GÜRKAN R.  
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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., Gürkan 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**  
Gürkan 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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FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT, cilt.36, sa.7, ss.1079-1097, 2019 (SCI-Expanded)
- 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**  
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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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- 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.  
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- 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.  
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- 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.  
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- 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**  
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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**  
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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**  
GÜRKAN R., ALTUNAY N., Gurkan N.  
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- 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**  
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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**  
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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**  
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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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JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE, SCI Kapsamındaki Dergi, Ekim 2019

CHEMICAL PAPERS, SCI Kapsamındaki Dergi, Ekim 2019

JOURNAL OF ENVIRONMENTAL ENGINEERING-ASCE, SCI Kapsamındaki Dergi, Eylül 2019

RSC ADVANCES, SCI Kapsamındaki Dergi, Eylül 2019

Yükseköğretim Kurumları Destekli Proje, BAP Araştırma Projesi, Sivas Cumhuriyet Üniversitesi, Türkiye, Nisan 2018

Yükseköğretim Kurumları Destekli Proje, BAP Araştırma Projesi, Sivas Cumhuriyet Üniversitesi, Türkiye, Nisan 2018

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## Metrikler

Yayın: 226

Atf (WoS): 1478

Atf (Scopus): 1871

H-İndeks (WoS): 21

H-İndeks (Scopus): 23

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9. Ulusal Analitik Kimya Kongresi, Çalışma Grubu, Konya, Türkiye, 2018

International Trace Analysis Congress, Çalışma Grubu, Sivas, Türkiye, 2018

8TH BLACK SEA BASIN CONFERENCE ON ANALYTICAL CHEMISTRY, Çalışma Grubu, İstanbul, Türkiye, 2018

I. International Scientific and Vocational Studies Congress, Çalışma Grubu, Nevşehir, Türkiye, 2017

International Conference on Technology, Engineering and Science (IConTES), Çalışma Grubu, Antalya, Türkiye, 2017

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## **Akademi Dışı Deneyim**

MEB Divriği İmam Hap Lisesi, Sivas

Yüzüncü Yıl Üniversitesi, Fen-Edebiyat Fakültesi, Van.