

# Prof. RAMAZAN GÜRKAN

## Personal Information

**Office Phone:** [+90 346 219 1010](tel:+903462191010) Extension: 2136

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

**Email:** [rgurkan@cumhuriyet.edu.tr](mailto:rgurkan@cumhuriyet.edu.tr)

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

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

## International Researcher IDs

ORCID: 0000-0003-0938-7697

Yoksis Researcher ID: 55412

## Education Information

Doctorate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 1998 - 2002

Postgraduate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 1995 - 1998

Undergraduate, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, Turkey 1981 - 1985

## Foreign Languages

English, B2 Upper Intermediate

## Certificates, Courses and Trainings

Quality Management, Yöntem geçerliliği ve ölçüm belirsizliği, II. Eser Analiz Çalıştayı, Trabzon, 2012

## Dissertations

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

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

## Research Areas

Natural Sciences

## Academic Titles / Tasks

Professor, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2014 - Continues

Associate Professor, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2009 - 2014

Assistant Professor, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2004 - 2009

Research Assistant PhD, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2002 - 2004

Research Assistant, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 1995 - 2002

## Academic and Administrative Experience

Head of Department, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2020 - Continues

Head of Department, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2017 - 2020

Deputy Head of Department, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2008 - 2010

## Courses

Analitik Kimya-I, Undergraduate, 2019 - 2020

Enstrümental Analiz Lab, Undergraduate, 2018 - 2019

Analitik Kimyanın ilkeleri, Postgraduate, 2019 - 2020

Tez Çalışması, Postgraduate, 2018 - 2019

Uzmanlık Alan Dersi, Postgraduate, 2018 - 2019

Analitik Kimyanın İlkeleri, Postgraduate, 2019 - 2020

Analitik kimya Lab. - I, Undergraduate, 2019 - 2020

Enstrümental Analiz, Undergraduate, 2018 - 2019

Genel Kimya II, Undergraduate, 2017 - 2018

Genel Kimya, Undergraduate, 2018 - 2019

Seminer Dersi, Doctorate, 2017 - 2018

Kimyasal Türleme, Postgraduate, 2016 - 2017

Misel-Destekli Ekstraksiyon, Postgraduate, 2017 - 2018

Elektroanalitik Kimya, Undergraduate, 2017 - 2018

Kimyasal Enstrümantasyon, Undergraduate, 2016 - 2017

Bitirme Ödevi/Tezi, Undergraduate, 2016 - 2017

Seminer Dersi, Postgraduate, 2015 - 2016

Analitik Kimyada İyonik Sıvılar, Postgraduate, 2015 - 2016

Uzmanlık Alan Dersi, Doctorate, 2015 - 2016

Genel Kimya Lab.I, Undergraduate, 2015 - 2016

Genel Kimya Laboratuvarı I, Undergraduate, 2014 - 2015

Genel Kimya I, Undergraduate, 2014 - 2015

Genel Kimya - II, Undergraduate, 2013 - 2014

Enstrümental Analiz, Undergraduate, 2013 - 2014

Genel Kimya - I, Undergraduate, 2013 - 2014

Elektroanalitik Kimya, Undergraduate, 2012 - 2013

Su Kimyası, Undergraduate, 2011 - 2012

Analitik kimyada iyonik sıvılar, Postgraduate, 2012 - 2013

Su Kimyası, Undergraduate, 2011 - 2012

Kinetik Analiz, Postgraduate, 2010 - 2011

Kimyasal Enstrümantasyon, Undergraduate, 2010 - 2011

Atomik Spektrometri Örnek Girişinde Yüzey Aktif Yapılandırılmış Yapılar, Postgraduate, 2010 - 2011

Enstrümental Analiz Lab., Undergraduate, 2010 - 2011

Genel Kimya-I, Undergraduate, 2010 - 2011

Su Kimyası, Undergraduate, 2009 - 2010

Tekstil Kimyası, Associate Degree, 2008 - 2009

Enstrümental Analiz, Undergraduate, 2009 - 2010

Kimyasal Türleme, Postgraduate, 2009 - 2010

Misel Destekli Ekstraksiyon, Postgraduate, 2009 - 2010  
Elektroanalitik Kimya, Undergraduate, 2009 - 2010  
Genel Kimya - III (Analitik Kimya), Undergraduate, 2007 - 2008  
Çevre Kimyasına Giriş, Undergraduate, 2006 - 2007  
Genel Kimya, Undergraduate, 2004 - 2005  
Kimya III, Undergraduate, 2005 - 2006  
Analitik Kimya, Undergraduate, 2005 - 2006  
Kimya-I, Undergraduate, 2004 - 2005  
Genel Kimya I, Undergraduate, 2004 - 2005

## Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Sivas Cumhuriyet Üniversitesi, January, 2020  
Doctorate, Doctorate, Tokat Gaziosmanpaşa Üniversitesi, September, 2019  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Sivas Cumhuriyet Üniversitesi, January, 2018  
Post Graduate, Post Graduate, Tokat Gaziosmanpaşa Üniversitesi, December, 2017  
Associate Professor Exam, Associate Professor Exam, Sivas Cumhuriyet Üniversitesi, October, 2017  
Associate Professor Exam, Associate Professor Exam, Sivas Cumhuriyet Üniversitesi, April, 2016  
Associate Professor Exam, Associate Professor Exam, Sivas Cumhuriyet Üniversitesi, January, 2015  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Sivas Cumhuriyet Üniversitesi, May, 2014

## Published journal articles indexed by SCI, SSCI, and AHCI

- 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, vol.78, no.5, pp.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, vol.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**  
GÜRKAN R., ZENGİN H.  
International Journal of Environmental Analytical Chemistry, 2023 (SCI-Expanded)
- 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**  
ZENGİN H., GÜRKAN R.  
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.115, 2023 (SCI-Expanded)
- 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**

Zengin H., Guerkan R.

JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.114, 2022 (SCI-Expanded)

- 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**  
Temel N., GÜRKAN R.  
ANALYTICAL METHODS, vol.14, no.26, pp.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**  
ZENGİN H., GÜRKAN R.  
JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, vol.19, no.5, pp.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, vol.104, no.3, pp.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, vol.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.  
TALANTA, vol.224, 2021 (SCI-Expanded)
- 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, vol.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, vol.18, no.2, pp.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**  
Olgac E., GÜRKAN R.  
FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT, vol.37, no.11, pp.1811-1830, 2020 (SCI-Expanded)
- 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.  
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.91, 2020 (SCI-Expanded)
- 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.  
FOOD CHEMISTRY, vol.310, 2020 (SCI-Expanded)
- 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, vol.100, no.2, pp.152-174, 2020 (SCI-Expanded)

- 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.  
JOURNAL OF ANALYTICAL CHEMISTRY, vol.74, no.12, pp.1174-1183, 2019 (SCI-Expanded)
- 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.  
MICROCHEMICAL JOURNAL, vol.150, 2019 (SCI-Expanded)
- 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.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.191, no.1, pp.254-268, 2019 (SCI-Expanded)
- 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.  
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.82, 2019 (SCI-Expanded)
- XXI. **A Simple and Green Microextraction Procedure for Extraction of Morin in Food and Beverages Using Ionic Liquid**  
ALTUNAY N., ELİK A., GÜRKAN R.  
FOOD ANALYTICAL METHODS, vol.12, no.8, pp.1747-1758, 2019 (SCI-Expanded)
- 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**  
Altunay N., Elik A., Gürkan R.  
FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT, vol.36, no.7, pp.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, vol.147, pp.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.  
MICROCHEMICAL JOURNAL, vol.147, pp.49-59, 2019 (SCI-Expanded)
- 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**  
ALTUNAY N., ELİK A., GÜRKAN R.  
MICROCHEMICAL JOURNAL, vol.147, pp.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**  
GÜRKAN R.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.99, no.10, pp.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, vol.186, no.2, pp.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, vol.101, no.6, pp.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**  
Dagdeviren S., ALTUNAY N., Sayman Y., GÜRKAN R.  
FOOD CHEMISTRY, vol.255, pp.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**  
GÜRKAN R., ALTUNAY N.  
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.69, pp.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, vol.245, pp.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**  
Temel N., GÜRKAN R.  
ACTA CHIMICA SLOVENICA, vol.65, no.1, pp.138-149, 2018 (SCI-Expanded)
- XXXIII. **Simple and fast spectrophotometric determination of low levels of thiabendazole residues in fruit and vegetables after pre-concentration with ionic liquid phase microextraction**  
ALTUNAY N., Uluzger D., GÜRKAN R.  
FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT, vol.35, no.6, pp.1139-1154, 2018 (SCI-Expanded)
- 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**  
ALTUNAY N., ELİK A., Bulutlu C., GÜRKAN R.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.98, no.7, pp.655-675, 2018 (SCI-Expanded)
- 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.  
FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT, vol.35, no.2, pp.222-232, 2018 (SCI-Expanded)
- 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**  
Temel N., GÜRKAN R.  
JOURNAL OF AOAC INTERNATIONAL, vol.101, no.1, pp.277-287, 2018 (SCI-Expanded)
- 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.  
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.86, pp.352-360, 2017 (SCI-Expanded)
- 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.  
FOOD ANALYTICAL METHODS, vol.10, no.12, pp.4024-4037, 2017 (SCI-Expanded)
- XXXIX. **Indirect determination of the flavor enhancer maltol in foods and beverages through flame atomic absorption spectrometry after ultrasound assisted-cloud point extraction**  
Altunay N., Gürkan R., Orhan U.  
FOOD CHEMISTRY, vol.235, pp.308-317, 2017 (SCI-Expanded)
- XL. **Ionic liquid based ion-pairing microextraction combined with spectrophotometry for preconcentration and quantitation of melamine in milk and milk-based products**  
Altunay N., Demir Ö., Gürkan R.  
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.86, no.86, pp.352-360, 2017 (SCI-Expanded)
- XLI. **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.  
FOOD ANALYTICAL METHODS, vol.10, no.7, pp.2194-2206, 2017 (SCI-Expanded)
- XLII. **A New Ultrasonic Thermo-static-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, vol.10, no.6, pp.1765-1776, 2017 (SCI-Expanded)
- XLIII. **Extraction, preconcentration and spectrophotometric determination of trace levels of thiosulfate in environmental waters**  
GÜRKAN R., ALTUNAY N., Gurkan N.  
JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, vol.14, no.5, pp.1033-1049, 2017 (SCI-Expanded)
- XLIV. **A micellar sensitized kinetic method for quantification of low levels of bisphenol A in foodstuffs by spectrophotometry**  
Temel N., GÜRKAN R.  
ANALYTICAL METHODS, vol.9, no.7, pp.1190-1200, 2017 (SCI-Expanded)
- XLV. **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.  
Arabian Journal of Chemistry, vol.10, 2017 (SCI-Expanded)
- XLVI. **Simultaneous determination of dissolved inorganic chromium species in wastewater/natural waters by surfactant sensitized catalytic kinetic spectrophotometry**  
GÜRKAN R., ULUSOY H. İ., Akçay M.  
Arabian Journal of Chemistry, vol.10, 2017 (SCI-Expanded)
- XLVII. **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.  
FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT, vol.34, no.3, pp.390-403, 2017 (SCI-Expanded)
- XLVIII. **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.  
TALANTA, vol.161, pp.143-150, 2016 (SCI-Expanded)
- XLIX. **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**  
ALTUNAY N., GÜRKAN R.  
TALANTA, vol.159, pp.344-355, 2016 (SCI-Expanded)
- 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.

JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, vol.13, no.9, pp.1579-1591, 2016 (SCI-Expanded)

- 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.  
TALANTA, vol.155, pp.38-46, 2016 (SCI-Expanded)
- 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**  
GÜRKAN R., ALTUNAY N.  
FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT, vol.33, no.7, pp.1127-1138, 2016 (SCI-Expanded)
- 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.  
FOOD ANALYTICAL METHODS, vol.9, no.4, pp.950-965, 2016 (SCI-Expanded)
- 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**  
ALTUNAY N., GÜRKAN R.  
FOOD ANALYTICAL METHODS, vol.9, no.2, pp.505-518, 2016 (SCI-Expanded)
- 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.  
ANALYTICAL METHODS, vol.8, no.2, pp.342-352, 2016 (SCI-Expanded)
- LVI. A simple and efficient approach for preconcentration of some heavy metals in cosmetic products before their determinations by flame atomic absorption spectrometry**  
ALTUNAY N., GÜRKAN R.  
TURKISH JOURNAL OF CHEMISTRY, vol.40, no.6, pp.988-1001, 2016 (SCI-Expanded)
- LVII. Photocatalytic TiO<sub>2</sub>-catalyzed degradation of bromophenol blue-mediated Mo(VI)-peroxo complexes in the presence of SDS**  
KARTAL TEMEL N., GÜRKAN R., Ayan F.  
DESALINATION AND WATER TREATMENT, vol.57, no.44, pp.21083-21090, 2016 (SCI-Expanded)
- LVIII. Simultaneous determination of antimony and boron in beverage and dairy products by flame atomic absorption spectrometry after separation and pre-concentration by cloud-point extraction**  
ALTUNAY N., GÜRKAN R.  
FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT, vol.33, no.2, pp.271-281, 2016 (SCI-Expanded)
- LIX. Preconcentration of sulfite from food and beverage matrices by ultrasonic assisted-cloud point extraction prior to its indirect determination by flame atomic absorption spectrometry**  
ALTUNAY N., GÜRKAN R.  
RSC ADVANCES, vol.6, no.25, pp.20961-20970, 2016 (SCI-Expanded)
- LX. Ultrasound assisted extraction and spectrophotometric determination of trace selenium in water, food and vegetable samples**  
ALTUNAY N., GÜRKAN R., Gunes M.  
ANALYTICAL METHODS, vol.8, no.46, pp.8208-8218, 2016 (SCI-Expanded)
- LXI. Determination of low levels of Cd(II) in cosmetic products by spectrophotometry after separation/preconcentration with cloud point extraction**  
ALTUNAY N., GÜRKAN R.



- ANALYTICAL METHODS, vol.8, no.12, pp.2673-2683, 2016 (SCI-Expanded)
- LXII. **A new atomic absorption-based method development for indirect determination of histamine in fish samples, dairy products, and alcoholic beverages by flame AAS**  
ALTUNAY N., GÜRKAN R., Tetik M.  
ANALYTICAL METHODS, vol.8, no.25, pp.5142-5151, 2016 (SCI-Expanded)
- LXIII. **Spectrophotometric determination of low levels arsenic species in beverages after ion-pairing vortex-assisted cloud-point extraction with acridine red**  
ALTUNAY N., GÜRKAN R., Kir U.  
FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT, vol.33, no.2, pp.259-270, 2016 (SCI-Expanded)
- LXIV. **Catalytic spectrophotometric determination of trace Mo(VI) in milk-based beverages in the presence of bromophenol blue and H<sub>2</sub>O<sub>2</sub> using SDS as a sensitizer**  
Temel N., GÜRKAN R.  
ANALYTICAL METHODS, vol.8, no.33, pp.6284-6292, 2016 (SCI-Expanded)
- LXV. **A new ultrasonic-assisted cloud-point-extraction procedure for pre-concentration and determination of ultra-trace levels of copper in selected beverages and foods by flame atomic absorption spectrometry**  
ALTUNAY N., GÜRKAN R., Orhan U.  
FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT, vol.32, no.9, pp.1475-1487, 2015 (SCI-Expanded)
- LXVI. **Indirect Determination of Free, Total, and Reversibly Bound Sulfite in Selected Beverages by Spectrophotometry Using Ultrasonic-Assisted Cloud Point Extraction as a Preconcentration Step**  
ALTUNAY N., GÜRKAN R., Sertakan K.  
FOOD ANALYTICAL METHODS, vol.8, no.8, pp.2094-2106, 2015 (SCI-Expanded)
- LXVII. **Quantification of 5-hydroxymethylfurfural in honey samples and acidic beverages using spectrophotometry coupled with ultrasonic-assisted cloud point extraction**  
GÜRKAN R., ALTUNAY N.  
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.42, pp.141-151, 2015 (SCI-Expanded)
- LXVIII. **A Novel Preconcentration Procedure Using Neutral Red as Ion-Pairing Reagent for Determination of Inorganic Dissolved Arsenic Species in Different Water and Beverages by Spectrophotometry**  
Guerkan R., Kir U., ALTUNAY N.  
FOOD ANALYTICAL METHODS, vol.8, no.7, pp.1637-1651, 2015 (SCI-Expanded)
- LXIX. **Development of a simple, sensitive and inexpensive ion-pairing cloud point extraction approach for the determination of trace inorganic arsenic species in spring water, beverage and rice samples by UV-Vis spectrophotometry**  
GÜRKAN R., Mr U., ALTUNAY N.  
FOOD CHEMISTRY, vol.180, pp.32-41, 2015 (SCI-Expanded)
- LXX. **Determination of total Sn in some canned beverages by FAAS after separation and preconcentration**  
GÜRKAN R., ALTUNAY N.  
FOOD CHEMISTRY, vol.177, pp.102-110, 2015 (SCI-Expanded)
- LXXI. **A new cloud point extraction procedure for determination of inorganic antimony species in beverages and biological samples by flame atomic absorption spectrometry**  
ALTUNAY N., GÜRKAN R.  
FOOD CHEMISTRY, vol.175, pp.507-515, 2015 (SCI-Expanded)
- LXXII. **An Inexpensive and Sensitive Method for Speciative Determination of Sn(IV), Sn(II), and Total Sn as Sn(IV) in Selected Beverages by Micellar Improved Spectrophotometry**  
ALTUNAY N., GÜRKAN R.  
FOOD ANALYTICAL METHODS, vol.8, no.4, pp.994-1004, 2015 (SCI-Expanded)
- LXXIII. **A new preconcentration procedure to quantify total acid hydrolyzed fluoride in selected beverages and foods by spectrophotometry**  
GÜRKAN R., ALTUNAY N., Korkmaz S.

- ANALYTICAL METHODS, vol.7, no.12, pp.5081-5091, 2015 (SCI-Expanded)
- LXXIV. **Ultrasound assisted-cloud point extraction combined with flame atomic absorption spectrometry for selective preconcentration and determination of As(v) in selected water and beverage samples**  
ALTUNAY N., GÜRKAN R., Kir U.  
ANALYTICAL METHODS, vol.7, no.16, pp.6629-6639, 2015 (SCI-Expanded)
- LXXV. **A simple, inexpensive and convenient procedure for determination of inorganic Sb species in milk and beverage samples in PET containers by flame atomic absorption spectrometry**  
ALTUNAY N., GÜRKAN R.  
ANALYTICAL METHODS, vol.7, no.23, pp.9850-9860, 2015 (SCI-Expanded)
- LXXVI. **Development of a new analytical methodology based on the catalytic effect of AG(I) in a new fuchsin-peroxodisulfate-1,10-phenantroline system: Application to the determination of trace amounts of silver**  
GÜRKAN R., ULUSOY H. İ.  
Journal of the Chilean Chemical Society, vol.59, no.3, pp.2531-2536, 2014 (SCI-Expanded)
- LXXVII. **Micellar sensitized catalytic kinetic spectrophotometry for highly accurate and reproducible determination of V(IV) and V(V)**  
GÜRKAN R., Emektas C.  
RARE METALS, vol.33, no.4, pp.466-478, 2014 (SCI-Expanded)
- LXXVIII. **Determination of Trace Cadmium in Nonalcoholic Beverages by Coupling Cloud Point Extraction with Spectrophotometry**  
Gurkan R., Altunay N.  
POLISH JOURNAL OF FOOD AND NUTRITION SCIENCES, vol.63, no.4, pp.253-260, 2013 (SCI-Expanded)
- LXXIX. **A fast and reliable method for quantitative determination of total mercury in vegetables**  
GÜRKAN R., Kir U.  
TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY, vol.95, no.10, pp.1659-1674, 2013 (SCI-Expanded)
- LXXX. **Determination of low levels of molybdenum (VI) in food samples and beverages by cloud point extraction coupled with flame atomic absorption spectrometry**  
GÜRKAN R., Aksoy Ü., ULUSOY H. İ., Akçay M.  
Journal of Food Composition and Analysis, vol.32, no.1, pp.74-82, 2013 (SCI-Expanded)
- LXXXI. **Cloud point extraction of trace cyanide from environmental waters for indirect flame atomic absorption spectrometric determination**  
GÜRKAN R., Yilmaz O.  
TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY, vol.95, no.9, pp.1455-1469, 2013 (SCI-Expanded)
- LXXXII. **Indirect quantification of trace levels cyanide in environmental waters through flame atomic absorption spectrometry coupled with cloud point extraction**  
GÜRKAN R., Yilmaz O.  
JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, vol.10, no.4, pp.631-642, 2013 (SCI-Expanded)
- LXXXIII. **A micellar improved method for trace levels selenium quantification in food samples, alcoholic and nonalcoholic beverages through CPE/FAAS**  
ULUSOY H. İ., YILMAZ Ö., GÜRKAN R.  
FOOD CHEMISTRY, vol.139, pp.1008-1014, 2013 (SCI-Expanded)
- LXXXIV. **A RELIABLE METHOD OF QUANTIFICATION OF TRACE COPPER IN BEVERAGES WITH AND WITHOUT ALCOHOL BY SPECTROPHOTOMETRY AFTER CLOUD POINT EXTRACTION**  
Gürkan R., Altunay N.  
QUIMICA NOVA, vol.36, pp.1146-1154, 2013 (SCI-Expanded)
- LXXXV. **A reliable determination of zinc levels in beverages with and without alcohol by flame atomic absorption spectrometry after cloud point extraction**  
Guerkan R., ALTUNAY N.  
ANALYTICAL METHODS, vol.5, no.7, pp.1755-1763, 2013 (SCI-Expanded)
- LXXXVI. **Inexpensive and versatile method for trace Sn(II) and Sn(IV) ions in food samples by CPE/FAAS**  
ULUSOY S., ULUSOY H. İ., Akçay M., GÜRKAN R.

- Food Chemistry, vol.134, no.1, pp.419-426, 2012 (SCI-Expanded)
- LXXXVII. **Micelle-Mediated Extraction and Flame Atomic Absorption Spectrometric Method for Determination of Trace Cobalt Ions in Beverage Samples**  
ULUSOY H. İ., GÜRKAN R., Demir Ö., ULUSOY S.  
Food Analytical Methods, vol.5, no.3, pp.454-463, 2012 (SCI-Expanded)
- LXXXVIII. **Development of a cloud point extraction and preconcentration method for chromium(III) and total chromium prior to flame atomic absorption spectrometry**  
ULUSOY H. İ., GÜRKAN R., Yılmaz Ö., Akçay M.  
Journal of Analytical Chemistry, vol.67, no.2, pp.131-139, 2012 (SCI-Expanded)
- LXXXIX. **Determination of trace amounts of Cu(II) in drinking and wastewater samples by a novel catalytic kinetic spectrophotometric method**  
GÜRKAN R., ULUSOY H. İ., Dönmez M.  
International Journal of Environmental Analytical Chemistry, vol.92, no.2, pp.148-165, 2012 (SCI-Expanded)
- XC. **Cloud point extraction and spectrophotometric determination of mercury species at trace levels in environmental samples**  
ULUSOY H. İ., GÜRKAN R., ULUSOY S.  
TALANTA, vol.88, pp.516-523, 2012 (SCI-Expanded)
- XCII. **Surfactant-sensitized spectrophotometric determination of Hg(II) in water samples using 2-(2-thiazolylazo)-p-cresol as ligand and cetylpyridinium chloride as cationic surfactant**  
GÜRKAN R., Cepken T., ULUSOY H. İ.  
TURKISH JOURNAL OF CHEMISTRY, vol.36, no.1, pp.159-177, 2012 (SCI-Expanded)
- XCIII. **Determination of ultra trace arsenic species in water samples by hydride generation atomic absorption spectrometry after cloud point extraction**  
ULUSOY H. İ., Akçay M., ULUSOY S., GÜRKAN R.  
Analytica Chimica Acta, vol.703, no.2, pp.137-144, 2011 (SCI-Expanded)
- XCIII. **A novel indicator system for catalytic spectrophotometric determination and speciation of inorganic selenium species (Se(IV), Se(VI)) at trace levels in natural lake and river water samples**  
GÜRKAN R., ULUSOY H. İ., Akçay M., Bulut P.  
Rare Metals, vol.30, no.5, pp.477-487, 2011 (SCI-Expanded)
- XCIV. **Development of an inexpensive and sensitive method for the determination of low quantity of arsenic species in water samples by CPE-FAAS**  
ULUSOY H. İ., Akçay M., GÜRKAN R.  
TALANTA, vol.85, no.3, pp.1585-1591, 2011 (SCI-Expanded)
- XCV. **Development of a cloud point extraction and preconcentration method for determination of trace aluminum in mineral waters by FAAS**  
ULUSOY H. İ., GÜRKAN R., Aksoy Ü., Akçay M.  
Microchemical Journal, vol.99, no.1, pp.76-81, 2011 (SCI-Expanded)
- XCVI. **Catalytic-kinetic spectrophotometric determination of vanadium (V) based on the Celestine blue-bromate-vanadium (V)-citric acid reaction**  
GÜRKAN R., Gurkan O.  
RARE METALS, vol.30, no.4, pp.348-358, 2011 (SCI-Expanded)
- XCVII. **Kinetic spectrophotometric determination of trace copper(II) ions by their catalytic effect on the reduction of brilliant cresyl blue by ascorbic acid**  
ULUSOY H. İ., GÜRKAN R., Akçay M.  
Turkish Journal of Chemistry, vol.35, no.4, pp.599-612, 2011 (SCI-Expanded)
- XCVIII. **CATALYTIC SPECTROPHOTOMETRIC DETERMINATION OF Mn(II) AT TRACE LEVELS USING CELESTINE BLUE-KIO4-1,10-PHENANTROLINE REDOX REACTION**  
Gurkan R.  
BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA, vol.25, no.3, pp.333-346, 2011 (SCI-Expanded)
- XCIX. **The investigation of a novel indicator system for trace determination and speciation of selenium in natural water samples by kinetic spectrophotometric detection**

GÜRKAN R., ULUSOY H. İ.

Bulletin of the Korean Chemical Society, vol.31, no.7, pp.1907-1914, 2010 (SCI-Expanded)

- C. **Removal of Cu(II), Zn(II) and Co(II) ions from aqueous solutions by adsorption onto natural bentonite**  
Kubilay S., Gurkan R., Savran A., Sahan T.  
ADSORPTION-JOURNAL OF THE INTERNATIONAL ADSORPTION SOCIETY, vol.13, no.1, pp.41-51, 2007 (SCI-Expanded)
- CI. **Determination of the surface properties of untreated and chemically treated kaolinites by inverse gas chromatography**  
Kubilay S., Guerkan R., Savran A., Yalcinkaya Z.  
COLLOID JOURNAL, vol.68, no.3, pp.274-284, 2006 (SCI-Expanded)
- CII. **Determination of Sodium and Potassium in Certified Rock Samples by AES after Ultrasonic Leaching**  
J. Serb. Chem. Soc., vol.71, pp.949-955, 2006  
Gürkan R., Özkan M. H., Özkan A., Akçay M.  
Journal Of The Serbian Chemical Society, vol.71, pp.949-955, 2006 (SCI-Expanded)
- CIII. **Evaluation of the thermodynamic parameters for the adsorption of some hydrocarbons on chemically treated-bentonites by inverse gas chromatography**  
Gurkan R., Ceylan H., Sahan T., Savran A., Kubilay S.  
ADSORPTION-JOURNAL OF THE INTERNATIONAL ADSORPTION SOCIETY, vol.11, pp.603-612, 2005 (SCI-Expanded)
- CIV. **Investigation of separation and identification possibilities of some metal-dithizonate complexes by sequential TLC-IR system**  
Gurkan R., Savasci S., Ozkan M., Akçay M.  
JOURNAL OF ANALYTICAL CHEMISTRY, vol.60, no.9, pp.800-804, 2005 (SCI-Expanded)
- CV. **Investigation of separation and identification possibilities of some metal-DEDTC complexes by sequential TLC-IR system**  
Gurkan R., Savasci S.  
JOURNAL OF CHROMATOGRAPHIC SCIENCE, vol.43, no.6, pp.324-328, 2005 (SCI-Expanded)
- CVI. **Determination of manganese and lead in roadside soil samples by FAAS with ultrasound assisted leaching**  
Ozkan M., Gurkan R., Ozkan A., Akçay M.  
JOURNAL OF ANALYTICAL CHEMISTRY, vol.60, no.5, pp.469-474, 2005 (SCI-Expanded)
- CVII. **Removal of some heavy metal cations from aqueous solution by adsorption onto natural kaolin**  
Ceylan H., Sahan T., Gurkan R., Kubilay S.  
ADSORPTION SCIENCE & TECHNOLOGY, vol.23, no.7, pp.519-534, 2005 (SCI-Expanded)
- CVIII. **Photocatalytic degradation of a textile azo dye, Sirius Gelb GC on TiO<sub>2</sub> or Ag-TiO<sub>2</sub> particles in the absence and presence of UV irradiation: the effects of some inorganic anions on the photocatalysis**  
Ozkan A., Ozkan M., Gurkan R., Akçay M., Sokmen M.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.163, pp.29-35, 2004 (SCI-Expanded)
- CIX. **Determination of trace amounts of iodide by an inhibition kinetic spectrophotometric method**  
Gurkan R., Bicer N., Ozkan M., Akçay M.  
TURKISH JOURNAL OF CHEMISTRY, vol.28, no.2, pp.181-191, 2004 (SCI-Expanded)
- CX. **Investigation of Pd-catalyzed Co(III)-EDTA/hypophosphite inhibition reaction kinetics, mechanism and the evaluation of its analytical application possibilities**  
Bicer N., Gurkan R., Akçay M., Altunata T.  
JOURNAL OF THE SERBIAN CHEMICAL SOCIETY, vol.69, no.2, pp.123-135, 2004 (SCI-Expanded)
- CXI. **Kinetic spectrophotometric determination of trace amounts of selenium based on the catalytic reduction of maxilon blue-SG by sulfide**  
Gurkan R., Akçay M.  
MICROCHEMICAL JOURNAL, vol.75, no.1, pp.39-49, 2003 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Determination of trace amounts of selenium in natural spring waters and tea samples by catalytic kinetic spectrophotometry**  
Gürkan R., Gürkan N. Z.  
Eletica quimica Journal, vol.44, no.4, pp.57-72, 2019 (Scopus)
- II. **Determination of Trace Levels of Nitrite in Beverages Samples Through Micellar Improved Catalytic Kinetic Spectrophotometry**  
Elik A., Altunay N., Gürkan R.  
Cumhuriyet Science Journal, vol.38, no.3, pp.400-411, 2017 (Peer-Reviewed Journal)
- III. **A new ultrasonic assisted cloud point extraction and preconcentration procedure for the spectrophotometric oxalate determination in beverages**  
Gürkan R., Altunay N.  
Hacettepe Journal of Biology and Chemistry, vol.45, no.1, pp.81-94, 2017 (Peer-Reviewed Journal)
- IV. **Determination of Trace Amounts of Total Fe as Fe(II) in Environmental Samples by Catalytic Kinetic Spectrophotometry**  
KARTAL TEMEL N., GÜRKAN R.  
Cumhuriyet Science Journal, vol.38, no.2, pp.373, 2017 (Peer-Reviewed Journal)
- V. **Determination of bisphenol A in plastic bottle packaging beverage samples using ultrasonic-assisted extraction and flame atomic absorption spectrometry**  
Yıldırım E., Altunay N., Gürkan R.  
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.1, no.1, pp.607, 2017 (Peer-Reviewed Journal)
- VI. **Photocatalytic Decolourization of Bromophenol Blue in Aqueous Solution with Cu(II)-Peroxo Complexes in Presence of SDS**  
KARTAL TEMEL N., GÜRKAN R.  
Analytical Chemistry Letters, vol.6, no.4, pp.435-447, 2016 (Peer-Reviewed Journal)
- VII. **Speciative Determination of Dissolved Inorganic Fe(II), Fe(III) and Total Fe in Natural Waters by Coupling Cloud Point Extraction with FAAS**  
GÜRKAN R., ALTUNAY N.  
Pakistan Journal of Analytical & Environmental Chemistry, vol.2, no.14, pp.16-27, 2013 (Peer-Reviewed Journal)
- VIII. **Surfactant enhanced-spectrophotometric determination of uranium (VI) at trace levels by using eriochrome black T as a chelating agent**  
Gürkan R., Ulusoy H. İ., Akçay M.  
Eletica Quimica, vol.36, pp.37-46, 2011 (Scopus)
- IX. **Catalytic Spectrophotometry for the Determination of Manganese at Trace Levels by a Novel Indicator Reaction**  
GÜRKAN R., ÇAYLAK O.  
JOURNAL OF THE KOREAN CHEMICAL SOCIETY-DAEHAN HWAHAK HOE JEE, vol.54, no.5, pp.556-566, 2010 (ESCI)
- X. **A New Analytical Method for the Kinetic Spectrophotometric Determination of Trace Amounts of Nitrite in Some Environmental Water Samples**  
GÜRKAN R., ULUSOY H. İ., Akçay M.  
EURASIAN JOURNAL OF ANALYTICAL CHEMISTRY, vol.5, no.1, pp.16-31, 2010 (ESCI)
- XI. **Catalytic Spectrophotometry for the Determination of Manganese at Trace Levels by a Novel Indicator Reaction**  
Gürkan R., Çaylak O.  
Journal of the Korean Chemical Society, vol.54, no.5, pp.556-566, 2010 (Scopus)
- XII. **Micellar Sensitized Spectrophotometric Determination of Magnesium in Drinking Water**  
GÜRKAN R., ULUSOY H. İ., AKÇAY M.  
Eurasian J. Anal. Chem., vol.4, no.2, pp.127-140, 2009 (Peer-Reviewed Journal)
- XIII. **A novel indicator reaction for the catalytic determination of V(V) at ppb levels by the kinetic spectrophotometric method**

ULUSOY H. İ., GÜRKAN R.

Eletica Quimica, vol.34, no.4, pp.49-64, 2009 (Scopus)

**XIV. Dissolution Kinetics of Magmatic Rocks via Ultrasonic Leaching for Calcium Magnesium and Aluminum**

Gürkan R., Özkan M. H., Akçay M., Özkan A.

Gazi University Journal of Science, vol.21, pp.117-122, 2008 (ESCI)

**XV. Kinetic of Reduction of Maxilon Blue SG by Sulfide Ion Kinetic Salt Effect in Elucidation of Reaction Mechanism.23, pp.25-38, 2003**

Gürkan R., Akçay M.

C.Ü Fen-Edebiyat Fakültesi, Fen Bilimleri Dergisi, vol.23, pp.25-38, 2003 (Peer-Reviewed Journal)

**XVI. Bazı Metal Oksinat Komplekslerinin Ardışık TLC IR Sistemi ile Ayrılma ve Tanı Olanaklarının Araştırılması vol.24, pp.51-63, 2003**

Gürkan R., Savaşçı Ş., Akçay M.

C.Ü. Fen-Edebiyat Fak. Fen Bilimleri Dergisi, vol.24, pp.51-63, 2003 (Peer-Reviewed Journal)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Extraction, Preconcentration and Determination of low levels of melamine in milk based samples using UA-CPE, indirectly followed by FAAS using Eosin Y and Mn(II)**  
KARTAL TEMEL N., GÜRKAN R.  
9. Ulusal Analitik Kimya Kongresi, Konya, 2018, Turkey, 19 - 23 September 2018
- II. **Maleik Anhidrit-ard-Stiren Kopolimerinin 2-Hidrazinobenzothiazole ile Modifikasyonu,karakte r izasyonu ve Analitik Uygulamaları**  
ZENGİN H., GÜRKAN R.  
ULUSLARARASI KATILIMLI P O L. İ M E R B İ L İ M V E V İ » TEK NO LO J İ KONGRESİ09-12 Eylül 2018, Eskişehir-Türkiye, Eskişehir, Turkey, 9 - 12 September 2018
- III. **Ultrasound-Assisted Extraction of Nickel and Cobalt from Food Samples and Their Determination by Flame-AAS**  
Elik A., Meral S., Gürkan R., Altunay N.  
International Trace Analysis Congress, Sivas, Turkey, 20 - 23 June 2018
- IV. **Ionic Liquid Assisted Microextraction Followed By Uv-Vis Spectrophotometric Quantification Of Total Mercury In Fish Samples**  
Elik A., Gürkan R., Altunay N.  
International Trace Analysis Congress, Sivas, Turkey, 20 - 23 June 2018
- V. **Coupling of Ionic Liquid Based Microextraction and Spectrophotometry for Ex-traction, Preconcentration and Determination of Low Levels of Histamine in Fish and Meat Products**  
Elik A., Gürkan R., Altunay N.  
International Trace Analysis Congress, Sivas, Turkey, 20 - 23 June 2018
- VI. **Ion-Pairing Ultrasound Assisted-Cloud Point Extraction as a Preconcentration Tool prior to Determination of Low levels of Free Formaldehyde in Fruit Flavored Milk Drinks and Vinegar by Spectrophotometry**  
KARTAL TEMEL N., GÜRKAN R.  
International TraceAnalysis Congress (iTAC2018), Sivas, Turkey, 20 - 23 June 2018
- VII. **Extraction, Preconcentration and Determination of Low Levels of Acetaldehyde In Fruit Flavored Milk Drinks and Vinegar Using Ion-Pairing UA-CPE Coupled With Spectrophotometry**  
KARTAL TEMEL N., GÜRKAN R.  
International TraceAnalysis Congress (iTAC2018), Sivas, Turkey, 20 - 23 June 2018
- VIII. **Spectrophotometric Determination of Trace Amounts of Formaldehyde in Some Beverages after Preconcentration with Ion-Pairing Ultrasound Assisted-Cloud Point Extraction**  
KARTAL TEMEL N., GÜRKAN R., GÜRKAN N.

8TH BLACK SEA BASIN CONFERENCE ON ANALYTICAL CHEMISTRY, 9 - 11 May 2018

- IX. **Extraction, Preconcentration and Determination of Low levels of Sulfite from some Beverage Matrices by Ultrasonic Assisted-Cloud Point Extraction coupled with Spectrophotometry**

KARTAL TEMEL N., GÜRKAN R., GÜRKAN N.

8TH BLACK SEA BASIN CONFERENCE ON ANALYTICAL CHEMISTRY, 9 - 11 May 2018

- X. **AN IMPROVED ULTRASOUND ASSISTED EXTRACTION METHOD FOR RAPID DETERMINATION OF PROLINE IN HONEY, WINE AND FRUIT SAMPLES BY SPECTROPHOTOMETRY**

Gürkan R., Altunay N.

I. International Scientific and Vocational Studies Congress, Nevşehir, Turkey, 5 - 08 October 2017

- XI. **A NOVEL AND ECO-FRIENDLY ULTRASOUND ASSISTED MICROEXTRACTION METHOD FOR EXTRACTION AND DETERMINATION OF ZINC, NICKEL AND COBALT BY FAAS**

Gürkan R., Elik A., Altunay N.

I. International Scientific and Vocational Studies Congress, Nevşehir, Turkey, 5 - 08 October 2017

- XII. **A SIMPLE AND ECO-FRIENDLY METHOD TO DETERMINE CARMINE IN FOOD SAMPLES BASED ON ULTRASOUND-ASSISTED EXTRACTION AND SPECTROPHOTOMETRIC DETECTION**

Elik A., Gürkan R., Altunay N.

I. International Scientific and Vocational Studies Congress, Nevşehir, Turkey, 5 - 08 October 2017

- XIII. **Balık Örneklerinde Histaminin Ultrasonik Destekli Örnek Hazırlama ve İyonik Sıvı Yardımlı Mikroekstraksiyon Sonrası Spektrofotometrik belirlenmes**

Altunay N., Elik A., Gürkan R.

29. Ulusal Kimya kongresi, Ankara, Turkey, 10 - 14 September 2017

- XIV. **İçecek Örneklerinde bulunan Bisfenol A'nın ultrasonik destekli bulutlanma noktası ekstraksiyonu ile tayini**

KARTAL TEMEL N., GÜRKAN R.

29. Ulusal Kimya Kongresi, Turkey, 10 - 14 September 2017

- XV. **Development of a robust ultrasonic assisted ionic liquid-based dispersive liquid-liquid microextraction for preconcentration of Pb in vegetable samples**

Yıldırım E., Altunay N., Gürkan R.

International Turkish Congress on Molecular Spectroscopy (TURCMOS2017), Muğla, Turkey, 26 - 29 August 2017

- XVI. **Development of a fast analytical microextraction method for the determination of Sudan (II) in foodstuffs by spectrophotometry**

Altunay N., Gürkan R., Ulaş O.

International Turkish Congress on Molecular Spectroscopy (TURCMOS2017), Antalya, Turkey, 26 - 29 August 2017

- XVII. **SPEKTROFOTOMETRİK DEDEKSİYON İLE GERÇEK ÖRNEKLERDE ESER DÜZEYDEKİ Fe II NİN KATALİTİK KİNETİK BELİRLENMESİ**

GÜRKAN R., ULUSOY H. İ., KARTAL TEMEL N., Çetin O.

Esan 2012, II. Eser Analiz Çalıştayı, Trabzon, Turkey, 27 June 2012 - 30 June 2017

- XVIII. **Bazı Sıvı Yağ Örneklerinde Toplam Vanadyumun V(V) Olarak Ekstraksiyonu, Zenginleştirilmesi ve Spektrofotometrik Tayini**

KUŞ B., KARTAL TEMEL N., GÜRKAN R.

XV. Ulusal Spektroskopi Kongresi (Usk 2017), Yalova 2017, Turkey, 17 - 19 May 2017

- XIX. **Çikolata Örneklerinde Eser Kobalt ve Nikel'in UA-CPE Yöntemi ile Ekstraksiyonu, Zenginleştirilmesi ve Spektrofotometrik Tayini**

KARTAL TEMEL N., SERTAKAN K., GÜRKAN R.

XV. Ulusal Spektroskopi Kongresi (Usk 2017), Yalova, 2017., Turkey, 17 - 19 May 2017

- XX. **Using A New Surfactant Enhanced Kinetic Spectrophotometry to Determine Trace Amounts of Bisphenol A in Food Sample**

KARTAL TEMEL N., GÜRKAN R.

10 th Aegean Analytical Chemistry Days, 29 September - 02 October 2016

- XXI. **Using a new surfactant enhanced kinetic spectrophotometry to determine trace amounts of bisphenol A in food samples**

KARTAL TEMEL N., GÜRKAN R.

10. Ege Analitik Kimya Günleri (Internaitonal Conference:10th Aegean Analytical Chemistry, 29 September - 02 October 2016

- XXII. **Bazı içecek ve meyve sularında toplam kalayın belirlenmesi için surfaktan duyarlı spektrofotometrik yöntem geliştirilmesi**  
ULUSOY S., GÜRKAN R., ULUSOY H. İ., DAĞDEVİREN S.  
II.Eser Analiz Çalıştayı, TRABZON, Turkey, 27 - 30 June 2016
- XXIII. **Ultrasonik Destekli Bulutlanma Noktası Ekstraksiyonu Yardımıyla Bazı Gıda Örneklerinde Sülfite Zenginleştirilmesi ve Spektroskopik Olarak Tayini**  
Altunay N., Gürkan R.  
IV. Eser Analiz Kongresi, Sakarya, Turkey, 19 - 22 May 2016
- XXIV. **Bromfenol mavisinin SDS varlığında Cu(II)-perokso kompleksi ile sulu çözeltiden giderimi**  
KARTAL TEMEL N., GÜRKAN R.  
8. Ulusal Analitik Kimya Kongresi, Turkey, 30 May - 03 June 2016
- XXV. **Bal Örneklerinde 5 Hidroksimetilfurfural ın Tayini İçin Yeni Spektrofotometrik Yöntem**  
Altunay N., Gürkan R.  
8. Ulusal Analitik Kimya Kongresi, Isparta, Turkey, 30 May - 03 June 2016
- XXVI. **FAAS Aracılığıyla Kuruyemiş Örneklerinde Eser Düzeyde Gümüş ve Kadmiyumun Belirlenmesi İçin Yeni Bir Prosedür**  
Yıldırım E., Gürkan R., Altunay N.  
IV. Eser Analiz Kongresi, Sakarya, Turkey, 19 - 22 May 2016
- XXVII. **A New Eco friendly and Rapid Ultrasound Assisted Cloud Point Extraction to Preconcentrate and Determine Sulfite from Vegetables and Dried Fruit Matrices**  
Altunay N., Gürkan R.  
International Turkish Congress on Molecular Spectroscopy (TURCMOS 2015), Antalya, Turkey, 13 - 18 September 2015
- XXVIII. **After separation and preconcentration determination of Sb III Sb V and total Sb in beverage samples bottled in PET by flame atomic absorption spectrometry**  
ALTUNAY N., GÜRKAN R.  
7. Ulusal Analitik Kimya Kongresi, Turkey, 1 - 05 September 2014
- XXIX. **Ultrasonik destekli bulutlanma noktası ekstraksiyonu ile zenginleştirmeden sonra kutu içeceklerde toplam bakırın FAAS ile Tayini**  
GÜRKAN R., ALTUNAY N., Ulaş O.  
XIV. Ulusal Spektroskopi Kongresi, Turkey, 29 - 31 May 2015
- XXX. **Ultrasonik destekli-bulutlanma noktası ekstraksiyonu ile zenginleştirmeden kutu içeceklerde toplam bakırın FAAS ile tayini**  
Altunay N., Gürkan R., Orhan U.  
XIV. Ulusal Spektroskopi Kongresi, Elazığ, Turkey, 29 - 31 May 2015
- XXXI. **A New Cloud Point Extraction Method based on Separation and Preconcentration prior to Determination of Periodate in Milk and Fruit-Flavored Milk Samples By Spectrophotometry**  
Gürkan R., Altunay N.  
7. Ulusal Analitik Kimya Kongresi, Kahramanmaraş, Turkey, 1 - 05 September 2014
- XXXII. **After separation and preconcentration the determination of Sb III Sb V and total Sb in beverage samples bottled in PET by flame atomic absorption spectrometry**  
Altunay N., Gürkan R.  
7. Ulusal Analitik Kimya Kongresi, Kahramanmaraş, Turkey, 1 - 05 September 2014
- XXXIII. **A novel preconcentration procedure using cloud point extraction for determination of inorganic dissolved arsenic species in some beverage samples using spectrophotometry**  
Gürkan R., Kır U., Altunay N.  
III. Eser Analiz Çalıştayı, Tokat, Turkey, 15 - 18 May 2014
- XXXIV. **Determination of free total and reversible organic matrix bound sulfite in beverages by CPE UV VIS**



- Gürkan R., Sertakan K., Altunay N.  
III. Eser Analiz Çalıştayı, Tokat, Turkey, 15 - 18 May 2014
- XXXV. **Cloud point extraction and spectrophotometric determination of nitrite in beverages with and without alcohol**  
Altunay N., Gürkan R.  
6th Black Sea Basin Conference on Analytical Chemistry, Trabzon, Turkey, 10 - 14 September 2013
- XXXVI. **A novel preconcentration procedure for determination of inorganic arsenic species in some beverage samples using spectrophotometry**  
Altunay N., Gürkan R., Kır U.  
6th Black Sea Basin Conference on Analytical Chemistry, Trabzon, Turkey, 10 - 14 September 2013
- XXXVII. **Bulutlanma Noktası Ekstraksiyonu İle Zenginleştirme Sonrası Spektrofotometri İle Bazı Kozmetik Örneklerinde Eser Kadmiyum Belirlenmesi**  
Kır U., Gürkan R., Altunay N.  
XIII. Ulusal Spektroskop kongresi, Burdur, Turkey, 15 - 18 May 2013
- XXXVIII. **Bulutlanma Noktası Ekstraksiyonu İle Zenginleştirme Sonrası Spektrofotometre İle Bazı Asidik Meyve Suyu Örneklerinde Arsenik Belirlenmesi**  
Gürkan R., Altunay N., Kır U.  
XIII. Ulusal Spektroskop kongresi, Burdur, Turkey, 15 - 18 May 2013
- XXXIX. **Eser düzeydeki Se IV iyonlarının belirlenmesi için CPE FAAS yöntemi**  
ULUSOY H. İ., YILMAZ Ö., GÜRKAN R., ULUSOY S.  
12.Ulusal Spektroskopi Kongresi, Antalya, Turkey, 18 - 22 May 2011
- XL. **Bulutlanma noktası ekstraksiyonu ile ayırma ve zenginleştirme sonra bazı çevresel su örneklerinde spektrofotometrik Hg II belirlenmesi**  
GÜRKAN R., ULUSOY H. İ., SEVİNÇ B., ULUSOY S.  
12.Ulusal Spektroskopi Kongresi, Antalya, Turkey, 18 - 22 May 2011
- XLI. **Celestine Blue KIO<sub>4</sub> 1 10 fenantrolin sistemine Mn II nin katalitik etkisine dayanan eser düzeyde kinetik spektrofotometrik Mn II belirlenmesi**  
GÜRKAN R., ÇAYLAK O., ULUSOY H. İ.  
23. Ulusal Kimya Kongresi, Sivas, Turkey, 16 - 20 June 2009

## Scientific Refereeing

TRENDS IN FOOD SCIENCE & TECHNOLOGY, SCI Journal, December 2019

NEW JOURNAL OF CHEMISTRY, SCI Journal, December 2019

ULTRASONICS SONOCHEMISTRY, SCI Journal, November 2019

JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE, SCI Journal, October 2019

CHEMICAL PAPERS, SCI Journal, October 2019

JOURNAL OF ENVIRONMENTAL ENGINEERING-ASCE, SCI Journal, September 2019

RSC ADVANCES, SCI Journal, September 2019

Project Supported by Higher Education Institutions, BAP Research Project, Sivas Cumhuriyet University, Turkey, April 2018

Project Supported by Higher Education Institutions, BAP Research Project, Sivas Cumhuriyet University, Turkey, April 2018

Project Supported by Higher Education Institutions, BAP Research Project, Sivas Cumhuriyet University, Turkey, June 2017

Project Supported by Higher Education Institutions, BAP Research Project, Sivas Cumhuriyet University, Turkey, November 2016

Project Supported by Higher Education Institutions, BAP Research Project, Sivas Cumhuriyet University, Turkey, October 2016

Project Supported by Higher Education Institutions, BAP Research Project, Sivas Cumhuriyet University, Turkey, July

2016

Project Supported by Higher Education Institutions, BAP MSc, Sivas Cumhuriyet University, Turkey, June 2016

Project Supported by Higher Education Institutions, BAP Research Project, Sivas Cumhuriyet University, Turkey, April 2015

Project Supported by Higher Education Institutions, BAP Research Project, Sivas Cumhuriyet University, Turkey, December 2014

Project Supported by Higher Education Institutions, BAP Research Project, Sivas Cumhuriyet University, Turkey, August 2014

Project Supported by Higher Education Institutions, BAP MSc, Sivas Cumhuriyet University, Turkey, August 2014

Project Supported by Higher Education Institutions, BAP PhD, Sivas Cumhuriyet University, Turkey, January 2014

Project Supported by Higher Education Institutions, BAP PhD, Sivas Cumhuriyet University, Turkey, January 2014

Project Supported by Higher Education Institutions, BAP Research Project, Sivas Cumhuriyet University, Turkey, May 2013

## Tasks In Event Organizations

Candan F., Ulusoy U., Gürkan R., ŞAHİN BÖLÜKBAŞI S., 23. Ulusal Kimya Kongresi, Scientific Congress, Sivas, Turkey, Haziran 2009

## Metrics

Publication: 226

Citation (WoS): 1478

Citation (Scopus): 1871

H-Index (WoS): 21

H-Index (Scopus): 23

## Congress and Symposium Activities

9. Ulusal Analitik Kimya Kongresi, Working Group, Konya, Turkey, 2018

ULUSLARARASI KATILIMLI POLİMER BİLİM VE VI. TEKNOLOJİ KONGRESİ, Working Group, Eskişehir, Turkey, 2018

International Trace Analysis Congress, Working Group, Sivas, Turkey, 2018

8TH BLACK SEA BASIN CONFERENCE ON ANALYTICAL CHEMISTRY, Working Group, İstanbul, Turkey, 2018

Ancon-International Congress on Chemistry and Materials Science, Working Group, Ankara, Turkey, 2017

2nd International Gazi Pharma Symposium Series, Working Group, Ankara, Turkey, 2017

I. International Scientific and Vocational Studies Congress, Working Group, Nevşehir, Turkey, 2017

International Conference on Technology, Engineering and Science (IConTES), Working Group, Antalya, Turkey, 2017

29. Ulusal Kimya Kongresi, Working Group, Ankara, Turkey, 2017

International Turkish Congress on Molecular Spectroscopy (TURCMOS2017), Working Group, Antalya, Turkey, 2017

XV. Ulusal Spektroskopi Kongresi (Usk 2017), Working Group, Yalova, Turkey, 2017

10th Aegean Analytical Chemistry Days, Working Group, Çanakkale, Turkey, 2016

1st International Black Sea Congress on Environmental Sciences - IBCESS, Working Group, Giresun, Turkey, 2016

28. Ulusal Kimya Kongresi, Working Group, Mersin, Turkey, 2016

II. Eser Analiz Çalıştayı, Working Group, Trabzon, Turkey, 2016

8. Ulusal Analitik Kimya Kongresi, Working Group, Isparta, Turkey, 2016

IV. Eser Analiz Kongresi, Working Group, Sakarya, Turkey, 2016

International Turkish Congress on Molecular Spectroscopy (TURCMOS 2015), Working Group, Antalya, Turkey, 2015

XIV. Ulusal Spektroskopi Kongresi, Working Group, Elazığ, Turkey, 2015

7. Ulusal Analitik Kimya Kongresi, Working Group, Kahramanmaraş, Turkey, 2014  
III. Eser Analiz Çalıştayı, Working Group, Tokat, Turkey, 2014  
6th Black Sea Basin Conference on Analytical Chemistry, Working Group, Trabzon, Turkey, 2013  
XIII. Ulusal Spektroskopi Kongresi, Working Group, Burdur, Turkey, 2013  
Esan 2012, II. Eser Analiz Çalıştayı, Working Group, Trabzon, Turkey, 2012  
12.Ulusal Spektroskopi Kongresi, Working Group, Antalya, Turkey, 2011  
V. Ulusal Analitik Kimya Kongresi, Working Group, Erzurum, Turkey, 2010  
5th Black Sea Basin Conference on Analytical Chemistry, Working Group, Ordu, Turkey, 2009  
23. Ulusal Kimya Kongresi, Working Group, Sivas, Turkey, 2009  
21. Ulusal Kimya Kongresi, Working Group, Malatya, Turkey, 2007  
XVIII. Ulusal Kimya Kongresi, Working Group, Kars, Turkey, 2004  
XVI. Ulusal Kimya Kongresi, Working Group, Konya, Turkey, 2002  
XI. Ulusal Kimya Kongresi, Working Group, Van, Turkey, 1997

## **Awards**

Gürkan R., 2020 Yılı Lütü Abay Kültür Ve Eğitim Vakfı (LAKEV) 4.Bilimsel Araştırma ve Yayın Teşvik Ödülü, Sivas Cumhuriyet Üniversitesi, December 2020  
Gürkan R., SCI kapsamında dergide yayınlanan makaleler TÜBİTAK Uluslararası Yayınları Teşvik Programı çerçevesinde teşvik edilmiştir., Tubitak, August 2016  
Gürkan R., Üçüncülük Yayın Onur Plaketi (Fakülte Öğretim Üyelerince üretilen yayın sıralaması bağlamında), C.Ü. Fen Fakültesi Dekanlığı, February 2012

## **Non Academic Experience**

MEB Divriği İmam Hap Lisesi, Sivas  
Yüzüncü Yıl Üniversitesi, Fen-Edebiyat Fakültesi, Van.