

Assoc. Prof. NAİL ALTUNAY

Personal Information

Email: naltunay@cumhuriyet.edu.tr

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

Education Information

Doctorate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Turkey 2011 - 2015

Postgraduate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, Turkey 2008 - 2011

Undergraduate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 2004 - 2008

Research Areas

Analytical Chemistry, Chemometry, Spectroscopical Methods, Trace Elements, Natural Sciences

Academic Titles / Tasks

Associate Professor, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2021 - Continues

Associate Professor, Sivas Cumhuriyet University, Fen Fakültesi, Biyokimya Bölümü, 2019 - 2021

Associate Professor, Sivas Cumhuriyet University, Yıldızeli Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler Bölümü, 2018 - 2019

Assistant Professor, Sivas Cumhuriyet University, Yıldızeli Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler Bölümü, 2017 - 2018

Lecturer, Sivas Cumhuriyet University, İmranlı Meslek Yüksekokulu, Kimya Ve Kimyasal İşleme Teknolojileri, 2015 - 2017

Lecturer, Sivas Cumhuriyet University, İmranlı Meslek Yüksekokulu, Malzeme Ve Malzeme İşl.Tekno., 2012 - 2015

Academic and Administrative Experience

BAP Scientific Commissioner, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2020 - Continues

Fakülte Yönetim Kurulu Üyesi, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2019 - Continues

Meslek Yüksekokulu Kurulu Üyesi, Sivas Cumhuriyet University, Yıldızeli Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2017 - 2019

Head of Department, Sivas Cumhuriyet University, Yıldızeli Meslek Yüksekokulu, Tıbbi Hizmetler ve Teknikler Bölümü, 2017 - 2019

Head of Department, Sivas Cumhuriyet University, İmranlı Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, 2016 - 2017

Meslek Yüksekokulu Kurulu Üyesi, Sivas Cumhuriyet University, İmranlı Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, 2014 - 2017

Head of Department, Sivas Cumhuriyet University, İmranlı Meslek Yüksekokulu, Malzeme ve Malzeme İşl.Tekno., 2014 - 2016

Meslek Yüksekokulu Yönetim Kurulu Üyesi, Sivas Cumhuriyet University, İmranlı Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, 2013 - 2016

Assistant Director of Vocational School, Sivas Cumhuriyet University, İmranlı Meslek Yüksekokulu, 2013 - 2016

Mevlana Exchange Program Coordinator, Sivas Cumhuriyet University, İmranlı Meslek Yüksekokulu, Kimya ve Kimyasal

İşleme Teknolojileri, 2014 - 2015

Erasmus Coordinator, Sivas Cumhuriyet University, İmranlı Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, 2013 - 2014

Courses

Temel Biyokimya, Associate Degree, 2018 - 2019
Biyoanalitik Kimya, Associate Degree, 2018 - 2019
Toprak Kimyası ve Analizleri, Associate Degree, 2018 - 2019
Laboratuvar Kimyası, Associate Degree, 2018 - 2019
Temel Tıbbi Laboratuvar Teknikleri, Associate Degree, 2017 - 2018
Analitik Kimya, Associate Degree, 2018 - 2019
Bilimsel ve Kültürel Etkinlikler, Associate Degree, 2017 - 2018
Medikal Cihazlar ve Çalışma Prensipleri, Associate Degree, 2018 - 2019
Enstrümantal Analiz, Associate Degree, 2017 - 2018
Enstümantal Analiz Lab., Associate Degree, 2017 - 2018
Analitik Kimya, Associate Degree, 2016 - 2017
Ayrırma ve Zenginleştirme Yöntemleri, Associate Degree, 2016 - 2017
Kimyasal Analizde Temel İlkeler, Associate Degree, 2017 - 2018
Endüstriyel Hijyen, Associate Degree, 2015 - 2016
Kimyasallar ve Tehlikeleri, Associate Degree, 2015 - 2016
Genel Kimya - I, Associate Degree, 2016 - 2017
İstatistik, Associate Degree, 2013 - 2014

Jury Memberships

Post Graduate, Post Graduate, Sivas Cumhuriyet Üniversitesi, November, 2019
Doctorate, Doctorate, Tokat Gaziosmanpaşa Üniversitesi, October, 2019
Post Graduate, Post Graduate, Sivas Cumhuriyet Üniversitesi, September, 2019
Post Graduate, Post Graduate, Sivas Cumhuriyet Üniversitesi, June, 2019
Post Graduate, Post Graduate, Tokat Gaziosmanpaşa Üniversitesi, April, 2019
Academic Staff Examination, Academic Staff Examination, Sivas Cumhuriyet Üniversitesi, December, 2018
Appointment Academic Staff, Appointment Academic Staff, Sivas Cumhuriyet Üniversitesi, February, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Experimental design of magnetic ionic liquid ultrasound-assisted dispersive liquid-liquid microextraction for the determination of 5-HMF in honey samples**
ALTUNAY N.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.114, 2022 (Peer-Reviewed Journal)
- II. **Synthesized of a novel xanthate functionalized polypropylene as adsorbent for dispersive solid phase microextraction of caffeine using orbital shaker in mixed beverage matrices**
Altunay N., Tuzen M., Hazer B., Elik A.
Food Chemistry, vol.393, 2022 (Peer-Reviewed Journal)
- III. **Chemometric design-based optimization of a green, selective and inexpensive switchable hydrophilicity solvent-based liquid phase microextraction procedure for pre-concentration and extraction of sulfadiazine in milk, honey and water samples**
Altunay N.

FOOD CHEMISTRY, vol.394, no.394, pp.133540, 2022 (Peer-Reviewed Journal)

- IV. **Synthesized of poly(vinyl benzyl dithiocarbonate-dimethyl amino ethyl methacrylate) block copolymer as adsorbent for the vortex-assisted dispersive solid phase microextraction of patulin from apple products and dried fruits**
TÜZEN M., Hazer B., ELİK A., ALTUNAY N.
FOOD CHEMISTRY, vol.395, 2022 (Peer-Reviewed Journal)
- V. **Vortex assisted magnetic ionic liquid based dispersive liquid-liquid microextraction approach for determination of metribuzin in some plant samples with UV-Vis spectrophotometer**
ELİK A., SARAÇ H., DURUKAN H., DEMİRBAŞ A., ALTUNAY N.
MICROCHEMICAL JOURNAL, vol.181, 2022 (Peer-Reviewed Journal)
- VI. **Chemometric approach for the spectrophotometric determination of chloramphenicol in various food matrices: Using natural deep eutectic solvents**
Elik A., Altunay N.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.276, 2022 (Peer-Reviewed Journal)
- VII. **Experimental and density functional theoretical modeling of triazole pesticides extraction by Ti2C nanosheets as a sorbent in dispersive solid phase extraction method before HPLC-MS/MS analysis**
Marzi Khosrowshahi E., Afshar Mogaddam M. R. , Javadzadeh Y., ALTUNAY N., Tuzen M., KAYA S., Ghalkhani M., Farajzadeh M. A. , Nemati M.
Microchemical Journal, vol.178, 2022 (Peer-Reviewed Journal)
- VIII. **Experimental and density functional theory studies during a new solid phase extraction of phenolic compounds from wastewater samples prior to GC-MS determination**
Farajzadeh M. A. , Nemati M., ALTUNAY N., Tuzen M., KAYA S., Kheradmand F., Afshar Mogaddam M. R.
Microchemical Journal, vol.177, 2022 (Peer-Reviewed Journal)
- IX. **Application of a new dithizone grafted polymeric adsorbent for solid phase microextraction of manganese and copper prior to FAAS in fortified vegetables and barbecue samples**
Ulusoy S., Demirbaş A., Elik A., Altunay N., Sarp G., Yilmaz E., Ulusoy H. İ.
CHEMICAL PAPERS, 2022 (Peer-Reviewed Journal)
- X. **Optimization of magnetic ionic based dispersive liquid-liquid microextraction of cadmium in water and food samples using experimental design prior to flame atomic absorption spectrophotometry**
Elik A., Altunay N.
Sustainable Chemistry and Pharmacy, vol.27, 2022 (Peer-Reviewed Journal)
- XI. **In-situ sorbent formation for the extraction of pesticides from honey**
Nemati M., Altunay N., Tüzen M., Farajzadeh M. A. , Afshar Mogaddam M. R.
JOURNAL OF SEPARATION SCIENCE, vol.1, no.1, pp.1, 2022 (Peer-Reviewed Journal)
- XII. **Assessment of arsenic in water, rice and honey samples using new and green vortex-assisted liquid phase microextraction procedure based on deep eutectic solvent: Multivariate study**
Altunay N., Elik A., Farooque Lanjwani M., Tüzen M.
MICROCHEMICAL JOURNAL, vol.179, pp.107541, 2022 (Peer-Reviewed Journal)
- XIII. **Theoretical and experimental insights about the adsorption of uranyl ion on a new designed Vermiculite-Polymer composite**
Şimşek S., Kaya S., Mine Şenol Z. M. , Ulusoy H. İ. , Katin K., Özer A., Altunay N., Brahmia A.
Journal of Molecular Liquids, vol.352, 2022 (Peer-Reviewed Journal)
- XIV. **Factorial design, physical studies and rapid arsenic adsorption using newly prepared polymer modified perlite adsorbent**
A.Saleh T., Tüzen M., Sarı A., Altunay N.
CHEMICAL ENGINEERING RESEARCH AND DESIGN, vol.1, no.1, pp.1, 2022 (Peer-Reviewed Journal)
- XV. **Development of sodium hydroxide-induced homogenous liquid-liquid extraction-effervescent assisted dispersive liquid-liquid microextraction based on deep eutectic solvents; Application in the extraction of phytosterols from cow cream samples**
Nemati M., Tüzen M., Altunay N., Farajzadeh M. A. , Abdi F., Afshar Mogaddam M. R.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.1, no.106, pp.104291, 2022 (Peer-Reviewed Journal)

- XVI. **Synthesis, characterization, and application of polyacrylamide/carmine polymer nanomaterial as an effective solid-phase material for ultrasonic-assisted solid-phase microextraction of aluminum and chromium in vegetable samples**
Ulusoy S., Elik A., Ulusoy H. İ. , Şimşek S., Altunay N.
CHEMICAL PAPERS, vol.76, no.3, pp.1553-1565, 2022 (Peer-Reviewed Journal)
- XVII. **Experimental design of ligandless sonication-assisted liquid- phases microextraction based on hydrophobic deep eutectic solvents for accurate determination of Pb(II) and Cd(II) from waters and food samples at trace levels**
ELİK A., DEMİRBAŞ A., ALTUNAY N.
FOOD CHEMISTRY, vol.371, 2022 (Peer-Reviewed Journal)
- XVIII. **Air-Assisted Alkanol-Based Nanostructured Supramolecular Liquid–Liquid Microextraction for Extraction and Spectrophotometric Determination of Morin in Fruit and Beverage Samples**
Demir Ö., Tüzen M., Altunay N., Afshar Mogaddam M. R.
FOOD ANALYTICAL METHODS, vol.166, pp.1, 2022 (Peer-Reviewed Journal)
- XIX. **Synthesis of carbon modified with polymer of diethylenetriamine and trimesoyl chloride for the dual removal of Hg (II) and methyl mercury ([CH₃Hg]⁺) from wastewater: Theoretical and experimental analyses**
Tüzen M., Sarı A., Afshar Mogaddam M. R. , Kaya S., P.Katin K., Altunay N.
Materials Chemistry And Physics, vol.277, no.277, pp.125501, 2022 (Peer-Reviewed Journal)
- XX. **Optimization and application of ultrasound-assisted sugar based deep eutectic solvent dispersive liquid–liquid microextraction for the determination and extraction of aflatoxin M1 in milk samples**
GÜRSOY N., Sirtbaşı B., ŞİMŞEK S., ELİK A., ALTUNAY N.
Microchemical Journal, vol.172, 2022 (Peer-Reviewed Journal)
- XXI. **Headspace μ -solid phase extraction of 1,4-dioxane and 2-methyl-1,3-dioxolane from shampoo samples in a home-mode device and large volume injection of deep eutectic solvent: theoretical and experimental studies**
Afshar Mogaddam M. R. , Altunay N., Tüzen M., P.Katin K., Nemati M., Lotfipour F.
MICROCHEMICAL JOURNAL, vol.173, no.1, pp.107040, 2021 (Peer-Reviewed Journal)
- XXII. **Optimization of ultrasound-assisted dispersive liquid-liquid microextraction of niacinamide in pharmaceutical and cosmetic samples using experimental design**
ALTUNAY N.
MICROCHEMICAL JOURNAL, vol.170, 2021 (Peer-Reviewed Journal)
- XXIII. **Tergitol@SiO₂@Fe₃O₄ magnetic nano-material and experimental design methodology: An effective and selective adsorbent for solid phase microextraction and flame atomic absorption spectrometric analysis of lead in different matrixes**
ALTUNAY N., ELİK A., SARP G., YILMAZ E., ULUSOY H. İ.
MICROCHEMICAL JOURNAL, vol.170, 2021 (Peer-Reviewed Journal)
- XXIV. **Synthesis of polystyrene-polyricinoleic acid copolymer containing silver nano particles for dispersive solid phase microextraction of molybdenum in water and food samples**
Tüzen M., Altunay N., Hazer B., Afsharmogaddamf M. R.
FOOD CHEMISTRY, vol.369, no.130973, pp.130973, 2021 (Peer-Reviewed Journal)
- XXV. **Air-assisted liquid-liquid microextraction of total 3-monochloropropane-1,2-diol from refined edible oils based on a natural deep eutectic solvent and its determination by gas chromatography-mass spectrometry**
Nemati M., Altunay N., Tüzen M., Farajzadeh M. A. , Alizadeh A. A. , Lotfipour F., Afshar Mogaddam M. R.
Journal Of Chromatography A, vol.1, pp.462559, 2021 (Peer-Reviewed Journal)
- XXVI. **An optimization approach for fast, simple and accurate determination of indigo-carmine in food samples**
ALTUNAY N.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.257, 2021 (Peer-Reviewed Journal)

- XXVII. **Ionic hydrophobic deep eutectic solvents in developing air-assisted liquid-phase microextraction based on experimental design: Application to flame atomic absorption spectrometry determination of cobalt in liquid and solid samples**
ELİK A., BİNGÖL D., ALTUNAY N.
FOOD CHEMISTRY, vol.350, 2021 (Peer-Reviewed Journal)
- XXVIII. **Investigations of Hg(II) analysis in real samples via computational chemistry, experimental design, and green microextraction approach**
Altunay N., Elik A., Demirbaş A., Kaya S., Maslov M.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.102, no.102, pp.104042, 2021 (Peer-Reviewed Journal)
- XXIX. **Experimental and theoretical investigation for the spectrophotometric determination of thiabendazole in fruit samples**
Tüzen M., Altunay N., Elik A., Afshar Mogaddam M. R. , Katin K.
MICROCHEMICAL JOURNAL, vol.168, no.168, pp.106488, 2021 (Peer-Reviewed Journal)
- XXX. **A simple and green ultrasound liquid-liquid microextraction method based on low viscous hydrophobic deep eutectic solvent for the preconcentration and separation of selenium in water and food samples prior to HG-AAS detection**
Altunay N., Tüzen M.
FOOD CHEMISTRY, vol.1, pp.1, 2021 (Peer-Reviewed Journal)
- XXXI. **Ultrasound-assisted alkanol-based nanostructured supramolecular solvent for extraction and determination of cadmium in food and environmental samples: Experimental design methodology**
ALTUNAY N., ELİK A.
MICROCHEMICAL JOURNAL, vol.164, 2021 (Peer-Reviewed Journal)
- XXXII. **Optimization of an ultrasound-assisted alcohol-based deep eutectic solvent dispersive liquid-phase microextraction for separation and preconcentration of quercetin in wine and food samples with response surface methodology**
ALTUNAY N., ELİK A., ÜNAL Y., KAYA S.
JOURNAL OF SEPARATION SCIENCE, vol.44, no.9, pp.2006-2014, 2021 (Peer-Reviewed Journal)
- XXXIII. **Ultrasound-assisted supramolecular solvent dispersive liquid-liquid microextraction for preconcentration and determination of Cr(VI) in waters and total chromium in beverages and vegetables**
Tuzen M., ELİK A., ALTUNAY N.
JOURNAL OF MOLECULAR LIQUIDS, vol.329, 2021 (Peer-Reviewed Journal)
- XXXIV. **Optimization of green and rapid analytical procedure for the extraction of patulin in fruit juice and dried fruit samples by air-assisted natural deep eutectic solvent-based solidified homogeneous liquid phase microextraction using experimental design and computational chemistry approach**
Taşpınar H., Elik A., Kaya S., Altunay N.
FOOD CHEMISTRY, vol.358, pp.129817, 2021 (Peer-Reviewed Journal)
- XXXV. **A new analytical approach for preconcentration, separation and determination of Pb(II) and Cd(II) in real samples using a new adsorbent: Synthesis, characterization and application**
Altunay N., Hazer B., Tüzen M., Elik A.
FOOD CHEMISTRY, vol.359, pp.129923, 2021 (Peer-Reviewed Journal)
- XXXVI. **Optimization of vortex-assisted ionic liquid dispersive liquid-liquid microextraction by experimental design prior to hydride generation atomic absorption spectrometry for determination of selenium species in food, beverage and water samples**
Altunay N., Elik A., Katin K.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.99, pp.103871, 2021 (Peer-Reviewed Journal)
- XXXVII. **Development of sensitive and accurate solid-phase microextraction procedure for preconcentration of As(III) ions in real samples**
Elik A., Tüzen M., Hazer B., Kaya S., Katina K., Altunay N.
Scientific Reports, vol.1, no.1, pp.1-2, 2021 (Peer-Reviewed Journal)
- XXXVIII. **Feasibility of supramolecular nanosized solvent based microsyringe-assisted liquid-phase**

- microextraction for preconcentration and separation of Vitamin B12 from infant formula, food supplement, and dairy products: Spectrophotometric analysis and chemometric optimization**
Altunay N., Elik A., Aydın D.
MICROCHEMICAL JOURNAL, vol.165, no.165, pp.106105, 2021 (Peer-Reviewed Journal)
- XXXIX. **Flame atomic absorption spectrometric determination of total chromium and cadmium in bean samples after ultrasonic-assisted microextraction using ionic liquid Aliquat-336**
Elik A., Karaköy T., Çilesiz Y., Altunay N.
Journal Of The Iranian Chemical Society, vol.1, no.18, pp.117-127, 2021 (Peer-Reviewed Journal)
- XL. **Poly(styrene)-co-2-vinylpyridine copolymer as a novel solid-phase adsorbent for determination of manganese and zinc in foods and vegetables by FAAS**
Tuzen M., ELİK A., Hazer B., ŞİMŞEK S., ALTUNAY N.
Food Chemistry, vol.333, 2020 (Peer-Reviewed Journal)
- XLI. **Theoretical and experimental studies aimed at the development of vortex-assisted supramolecular solvent microextraction for determination of nickel in plant samples by FAAS**
Maslov M. M. , ELİK A., DEMİRBAŞ A., Katin K. P. , ALTUNAY N.
MICROCHEMICAL JOURNAL, vol.159, 2020 (Peer-Reviewed Journal)
- XLII. **Spectrophotometric determination of aflatoxin B1 in food sample: Chemometric optimization and theoretical supports for reaction mechanisms and binding regions**
ALTUNAY N., Katin K. P. , GÜRSOY N., ELİK A., ŞİMŞEK S., KAYA S.
Journal of Food Composition and Analysis, vol.94, 2020 (Peer-Reviewed Journal)
- XLIII. **Determination of Se content of 78 sesame accessions with different geographical origin**
KURT C., DEMİRBAŞ A., Nawaz M. A. , Chung G., Baloch F. S. , ALTUNAY N.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.94, 2020 (Peer-Reviewed Journal)
- XLIV. **A green and efficient vortex-assisted liquid-phase microextraction based on supramolecular solvent for UV-VIS determination of nitrite in processed meat and chicken products**
ALTUNAY N., ELİK A.
FOOD CHEMISTRY, vol.332, 2020 (Peer-Reviewed Journal)
- XLV. **A simple and quick ionic liquid-based ultrasonic-assisted microextraction for determination of melamine residues in dairy products: Theoretical and experimental approaches**
ALTUNAY N., ELİK A., KAYA S.
Food Chemistry, vol.326, 2020 (Peer-Reviewed Journal)
- XLVI. **Alcohol-DES based vortex assisted homogenous liquid-liquid microextraction approach for the determination of total selenium in food samples by hydride generation AAS: Insights from theoretical and experimental studies**
ALTUNAY N., ELİK A., KAYA S.
TALANTA, vol.215, 2020 (Peer-Reviewed Journal)
- XLVII. **Ultrasonic-assisted supramolecular solvent liquid-liquid microextraction for determination of manganese and zinc at trace levels in vegetables: Experimental and theoretical studies**
Altunay N., Katin K. P.
JOURNAL OF MOLECULAR LIQUIDS, vol.310, 2020 (Peer-Reviewed Journal)
- XLVIII. **Towards green analysis of curcumin from tea, honey and spices: Extraction by deep eutectic solvent assisted emulsification liquid-liquid microextraction method based on response surface design**
ALTUNAY N., ÜNAL Y., ELİK A.
FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT, vol.37, no.6, pp.869-881, 2020 (Peer-Reviewed Journal)
- XLIX. **Determination of paracetamol in synthetic urea and pharmaceutical samples by shaker-assisted deep eutectic solvent microextraction and spectrophotometry**
Dogan B., ELİK A., ALTUNAY N.
MICROCHEMICAL JOURNAL, vol.154, 2020 (Peer-Reviewed Journal)
- L. **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 (Peer-Reviewed Journal)

- LI. **Usage of the newly synthesized Poly(3-hydroxy butyrate)-b-poly(vinyl benzyl xanthate) block copolymer for vortex-assisted solid-phase microextraction of cobalt (II) and nickel (II) in canned foodstuffs**
Altunay N., Tüzen M., Hazer B., Elik A.
FOOD CHEMISTRY, vol.321, no.321, pp.126690, 2020 (Peer-Reviewed Journal)
- LII. **Analysis of zinc and chromium in grain samples using ionic-liquid-based ultrasound-assisted microextraction followed by flame-AAS after microwave digestion**
Altunay N., Elik A., Demirbaş A.
Biological Trace Element Research, vol.1, no.1, pp.1, 2020 (Peer-Reviewed Journal)
- LIII. **Simple and green heat-induced deep eutectic solvent microextraction for determination of lead and cadmium in vegetable samples by flame atomic absorption spectrometry: A multivariate study**
Altunay N., Elik A., Bingöl D.
Biological Trace Element Research, vol.1, no.1, pp.1, 2020 (Peer-Reviewed Journal)
- LIV. **Vortex assisted-ionic liquid dispersive liquid-liquid microextraction and spectrophotometric determination of quercetin in tea, honey, fruit juice and wine samples after optimization based on response surface methodology**
Altunay N., Bingöl D., Elik A., Gürkan R.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.221, 2019 (Peer-Reviewed Journal)
- LV. **Innovative and practical deep eutectic solvent based vortex assisted microextraction procedure for separation and preconcentration of low levels of arsenic and antimony from sample matrix prior to analysis by hydride generation-atomic absorption spectrometry**
Altunay N., Elik A., Gürkan R.
FOOD CHEMISTRY, vol.293, pp.378-386, 2019 (Peer-Reviewed Journal)
- LVI. **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 (Peer-Reviewed Journal)
- LVII. **Development of a chemometric-assisted deep eutectic solvent-based microextraction procedure for extraction of caffeine in foods and beverages**
ELİK A., ÜNAL Y., ALTUNAY N.
FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT, vol.36, no.8, pp.1139-1150, 2019 (Peer-Reviewed Journal)
- LVIII. **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 (Peer-Reviewed Journal)
- LIX. **Developing a new and simple natural deep eutectic solvent based ultrasonic-assisted microextraction procedure for determination and preconcentration of As and Se from rice samples**
ELİK A., DEMİRBAŞ A., ALTUNAY N.
ANALYTICAL METHODS, vol.11, no.27, pp.3429-3438, 2019 (Peer-Reviewed Journal)
- LX. **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 (Peer-Reviewed Journal)
- LXI. **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 (Peer-Reviewed Journal)
- LXII. **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 (Peer-Reviewed Journal)
- LXIII. **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 (Peer-Reviewed Journal)
- LXIV. **Ultrasound-Assisted Low-Density Solvent-Based Dispersive Liquid-Liquid Microextraction Coupled to Spectrophotometry for the Determination of Low Levels of Histamine in Fish and Meat Products**
Elik A., Altunay N., Gürkan R.
FOOD ANALYTICAL METHODS, vol.12, no.12, pp.489-502, 2019 (Peer-Reviewed Journal)
- LXV. **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 (Peer-Reviewed Journal)
- LXVI. **Development of vortex-assisted ionic liquid-dispersive microextraction methodology for vanillin monitoring in food products using ultraviolet-visible spectrophotometry**
Altunay N.
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.93, no.93, pp.9-15, 2018 (Peer-Reviewed Journal)
- LXVII. **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 (Peer-Reviewed Journal)
- LXVIII. **Anticorrosive Effects of Some Thiophene Derivatives Against the Corrosion of Iron: A Computational Study**
Guo L., Safi Z. S., KAYA S., Shi W., TÜZÜN B., ALTUNAY N., KAYA C.
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- LXIX. **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**
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EKSTRAKSİYONU TEMELLİ ÖRNEK HAZIRLAMA YÖNTEMİ GELİŞTİRİLMESİ

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- XLl. **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
- XLII. **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
- XLIII. **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
- XLIV. **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
- XLV. **After separation and enrichment determination of total soluble and insoluble oxalate in some beverages with and without alcohol by spectrophotometric**
Altunay N., Gürkan R., Kır U.
III. Eser Analiz Çalıştayı, Tokat, Turkey, 15 - 18 May 2014
- XLVI. **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
- XLVII. **cloud point extraction and spectrophotometric determination of trace nitrite different beverage samples**
Esra O., Gürkan R., Altunay N.
III. Eser Analiz Çalıştayı, Tokat, Turkey, 15 - 18 May 2014
- XLVIII. **A novel preconcentration procedure for determination of inorganic arsenic species in some beverage samples using spectrophotometry**
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6th Black Sea Basin Conference on Analytical Chemistry, Trabzon, Turkey, 10 - 14 September 2013
- XLIX. **Cloud point extraction and spectrophotometric determination of nitrite in beverages with and without alcohol**
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- L. **Bulutlanma Noktası Ekstraksiyonu İle Zenginleştirme Sonrası FAAS İle Bazı İçme Suyu Ve Asidik İçeceklerde Çözünür İnorganik Antimon Türlerinin Belirlenmesi**
Altunay N., Gürkan R., Eser M., Kır U.
XIII. Ulusal Spektroskop kongresi, Burdur, Turkey, 15 - 18 May 2013
- Ll. **Bulutlanma Noktası Ekstraksiyonu İle Zenginleştirme Sonrası Spektrofotometri İle Bazı Kozmetik Örneklerinde Eser Kadmiyum Belirlenmesi**
Kır U., Gürkan R., Altunay N.
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- LII. **Bulutlanma Noktası Ekstraksiyonu İle Zenginleştirme Sonrası Spektrofotometre İle Bazı Asidik Meyve Suyu Örneklerinde Arsenik Belirlenmesi**

Gürkan R., Altunay N., Kır U.

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LIII. Karışık Misel Ortamda Eser Düzeylerde Nitritin Katalitik Kinetik Belirlenmesi

Altunay N., Gürkan R.

XIII. Ulusal Spektroskop kongresi, Burdur, Turkey, 15 - 18 May 2013

Supported Projects

Altunay N., Elik A., Project Supported by Higher Education Institutions, İşlenmiş et ürünlerinde (sucuk, salam, sosis, pastırma, jambon) nitrit ve nitratın tayini için kemometrik modellemeyle yeni bir yöntem geliştirilmesi, 2019 - 2021

Altunay N., Elik A., Project Supported by Higher Education Institutions, Bal örneklerinde ağır metallerin belirlenmesi için mikroekstraksiyon parametrelerinin kemometrik çalışmayla optimizasyonu, 2018 - 2021

Altunay N., Kasaka E., Taşkın Çakıcı G., Project Supported by Higher Education Institutions, Yıldız Irmağı Suyunun Kimyasal Özelliklerinin (NH₄-N, NO₃-N, SiO₂-Si, Ca²⁺) ve Eser Elementlerin (Mn, Fe, Pb, Cd) Sıvı-Sıvı Mikroekstraksiyon Analitik Yöntemi ile Belirlenmesi, 2018 - 2020

Altunay N., Gürkan R., Kaya S., Elik A., Project Supported by Higher Education Institutions, Gerçek Örneklerde İnorganik Arsenik ve Antimonun İyonik Sıvı Destekli Sıvı-Sıvı Mikroekstraksiyon Yardımıyla Önderiştirilme Sonrası HG-AAS ile Tayinleri, 2017 - 2020

Gürkan R., Elik A., Altunay N., Project Supported by Higher Education Institutions, Sivas Yöresi Yerel Bitki (Yemlik, Madımak ve Kuzukulağı) Örneklerinde Al, Cr, Ni, Pb, Cd, As ve Se Elementlerinin Farklı Ekstraksiyon Teknikleriyle Zenginleştirilmesi Sonrası Spektroskopik Tayinleri İçin Yeni Çevre Dostu Analitik Yöntemlerin Geliştirilmesi, 2017 - 2019

Gürkan R., Altunay N., Elik A., Project Supported by Higher Education Institutions, Deniz Ürünlerinde (Palamut, Midye, Lüfer, Uskumru, hamsi, İstavrit gibi) Metil Civa ve Toplam Civanın Spektrofotometrik Belirlenmesi İçin Kullanışlı, Ucuz ve Çevreci Analitik Yöntemlerin Geliştirilmesi, 2017 - 2018

Gürkan R., Altunay N., Project Supported by Higher Education Institutions, Kızartılmış, Pişirilmiş ve Kavrulmuş Gıda Örneklerinde Doğal Olarak Ortaya Çıkan Toksik Akrilamidin İyonik Sıvı ve Sürfaktanlar Yardımıyla Ön deriştirilmesi Sonrası Spektrofotometrik Tayini, 2017 - 2018

Gürkan R., Altunay N., Kaya S., Project Supported by Higher Education Institutions, Bazı Çevresel Örnekler ve Gıdalarda Çoklu Elementlerin İyonik Sıvı ve Misel Destekli Ekstraksiyon Yöntemleriyle Zenginleştirilmesi Sonrası Hidrür Oluşturmalı ve Alevli Atomik Absorpsiyon Spektrometrisi İle Tayin Olanaklarının Araştırılması, 2016 - 2018

Altunay N., Elik A., Gürkan R., Project Supported by Higher Education Institutions, Ultrasonik Destekli Örnek Hazırlama ve İyonik Sıvı Destekli Mikroekstraksiyon Sonrası Lüfer, Hamsi ve Alabalık Örneklerinde Histaminin Spektrofotometrik Belirlenmesi İçin Yeni Çevre Dostu Analitik Yöntem(ler)in Geliştirilmesi, 2017 - 2017

Gürkan R., Altunay N., Project Supported by Higher Education Institutions, Çevresel ve Gıda Örneklerinde Arsenik ile Selenyumun İyonik Sıvı Dağılımlı Sıvı Sıvı Mikroekstraksiyon İle Eşanlı Zenginleştirme Sonrası Hidrür Oluşturmalı HG AAS İle Tayin Olanaklarının Araştırılması, 2016 - 2017

Altunay N., Kaya S., Project Supported by Higher Education Institutions, Yeni Sentezlenmiş Heterosiklik Bileşiklerin Çeşitli Metallerin Korozyonu Karşısında İnhibisyon Etkilerinin Teorik Yöntemler Aracılığıyla Araştırılması ve Moleküler Modelleme Çalışmaları, 2016 - 2016

Gürkan R., Altunay N., Project Supported by Higher Education Institutions, Bazı Kozmetik Ürünlerinde Mevcut Ağır Metallerin Sn Pb ve Cd Ultrasonik Destekli Bulutlanma Noktası Ekstraksiyonu İle Zenginleştirilmesi Sonrası Alevli Atomik Absorpsiyon Spektrometrisi İle Eşanlı Tayin Olanaklarının Araştırılması, 2015 - 2016

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Altunay N., Gürkan R., Project Supported by Higher Education Institutions, Misel Etki Yardımıyla Bazı Gıda Örneklerinde Sülfidin serbest sülfid tersinir organik bağlı sülfid ve toplam sülfidin Spektroskopik UV Görünür FAAS Belirlenme Olanaklarının Araştırılması, 2014 - 2016

Altunay N., Gürkan R., Project Supported by Higher Education Institutions, Gerçek Örneklerde İnorganik Çözünür Sb Türlerinin Sb III Sb V ve total Sb Belirlenmesi ve Türülenmesi için CPE FAAS Arayüzey Tekniğinin Kullanımı, 2014 - 2015

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Altunay N., Gürkan R., Project Supported by Higher Education Institutions, Alev Atomik Absorpsiyon Spektrometrisi FAAS İle Fe II ve Fe III ün Türlenmesi İçin Misel Destekli Ekstraksiyonun Kullanımı, 2010 - 2011

Scientific Refereeing

FOOD RESEARCH INTERNATIONAL, SCI Journal, October 2020
ANALYTICAL METHODS, Journal Indexed in SCI-E, September 2020
TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, September 2020
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ARABIAN JOURNAL OF CHEMISTRY, SCI Journal, August 2020
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Tasks In Event Organizations

Ulusoy H. İ. , Bağda E., Oymak T., Altunay N., Ulusoy S., Şimşek S., Yılmaz E., V. Interantional Trace Analysis Congress, Scientific Congress, Sivas, Turkey, Haziran 2018

Metrics

Publication: 189

Citation (WoS): 925

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H-Index (WoS): 17

H-Index (Scopus): 18

Edit Congress and Symposium Activities

2nd International Environmental Chemistry Congress (EnviroChem), Working Group, Antalya, Turkey, 2019

Eurasia 3rd international congress of applied sciences , Working Group, Sivas, Turkey, 2019

International Eurasian Congress on Natural Nutrition Healthy Life , Working Group, Ankara, Turkey, 2018

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

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

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

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

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

2.International Turkish Congress on Molecular Spectroscopy , Working Group, Muğla, Turkey, 2017

15. Ulusal Spektroskopi Kongresi, Working Group, Yalova, Turkey, 2017

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

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

28. Ulusal Kimya Kongresi, Working Group, Mersin, 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, 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 Spektroskop kongresi, Working Group, Burdur, Turkey, 2013