

Prof. ADİL ELİK

Personal Information

Email: elik@cumhuriyet.edu.tr

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

International Researcher IDs

ORCID: 0000-0002-3942-4711

Publons / Web Of Science ResearcherID: B-8162-2016

Yoksis Researcher ID: 53992

Education Information

Doctorate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 1990 - 1995

Postgraduate, Sivas Cumhuriyet University, Fen-Edebiyat Fakültesi, Kimya Pr., Turkey 1987 - 1990

Undergraduate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 1982 - 1986

Dissertations

Doctorate, Çevresel ağır metal kirliliğinin izlenmesinde yeni bir örnek hazırlama yaklaşımı: Ultrasonik leaching, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 1995

Postgraduate, Bazı doğal sediment ve filizlerin analize hazırlanmasında çözünürleştirme tekniklerinin optimizasyonu, Sivas Cumhuriyet Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Pr., 1990

Research Areas

Agricultural Sciences, Natural Sciences

Academic Titles / Tasks

Professor, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2023 - Continues

Associate Professor, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2019 - 2023

Assistant Professor, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 1997 - 2019

Research Assistant, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 1987 - 1997

Academic and Administrative Experience

Anabilim Dalı Akademik Kurul Üyesi, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2020 - Continues

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

Member of the Senate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2019 - Continues

Rektörlüğe Bağlı Birim Başkanı, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2017 - Continues

Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, 2016 - Continues

Fakülte Yönetim Kurulu Üyesi, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2019 - 2022

Rektörlüğe Bağlı Birim Başkanı, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2017 - 2021

Courses

Elemental Analiz için Atomik Spektroskopi-I, Doctorate, 2018 - 2019
Gerçek Numunelerin Analizi, Postgraduate, 2019 - 2020
Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020
Endüstri Kimyası - II, Undergraduate, 2018 - 2019
Tez Çalışması, Postgraduate, 2018 - 2019
Endüstri Kimyası - II, Undergraduate, 2018 - 2019
Elemental Analiz İçin Atomik Spektroskopi-II, Doctorate, 2018 - 2019
Endüstri Kimyası - I, Undergraduate, 2019 - 2020
Uzmanlık Alan Dersi, Doctorate, 2019 - 2020
Genel Kimya, Undergraduate, 2019 - 2020
Tez Çalışması, Doctorate, 2018 - 2019
Analitik Kimya, Undergraduate, 2019 - 2020
Genel Kimya, Undergraduate, 2019 - 2020
Analitik Kimya-II, Undergraduate, 2018 - 2019
Genel Kimya II, Undergraduate, 2017 - 2018
Analitik Kimya, Undergraduate, 2018 - 2019
ANALİTİK KİMYA, Undergraduate, 2017 - 2018, 2016 - 2017
Bitirme Ödevi/Tezi, Undergraduate, 2018 - 2019
Analitik Kimyada Ultrasound, Doctorate, 2017 - 2018
GENEL KİMYA LAB. I, Undergraduate, 2017 - 2018
Genel Kimya Lab. - II, Undergraduate, 2017 - 2018
ELEMENEL ANALİZ İÇİN ATOMİK SPEKTROSKOPİ-I, Postgraduate, 2017 - 2018
İLERİ ELEKTRO ANALİTİK KİMYA, Postgraduate, 2017 - 2018
Seminer Dersi, Postgraduate, 2017 - 2018
ENDSTRİ KİMYASI II, Undergraduate, 2016 - 2017
GERÇEK NUMUNELERİN ANALİZ, Postgraduate, 2016 - 2017
Genel Kimya Laboratuvarı, Undergraduate, 2017 - 2018
GENEL KİMYA LAB II, Undergraduate, 2016 - 2017
İleri Elektroanalitik Kimya, Postgraduate, 2017 - 2018
Endüstri Kimyası - II, Undergraduate, 2016 - 2017
ÇEVRE KİRLİLİĞİ VE KONTROL METODLARI, Postgraduate, 2016 - 2017
Genel Kimya II, Undergraduate, 2016 - 2017
Çevre Kirliliği ve Kontrol Metodları, Postgraduate, 2016 - 2017
ENDÜSTRİ KİMYASI-I, Undergraduate, 2016 - 2017
Bitirme Ödevi/Tezi, Undergraduate, 2016 - 2017
Genel Kimya Laboratuvarı, Undergraduate, 2016 - 2017
Genel Kimya Laboratuvarı II, Undergraduate, 2015 - 2016
Endüstri Kimyası - I, Undergraduate, 2014 - 2015
Genel Kimya I, Undergraduate, 2013 - 2014
Endüstri Kimyası - I, Undergraduate, 2014 - 2015
Analitik Kimya - II, Undergraduate, 2012 - 2013
Endüstri Kimyası - II, Undergraduate, 2012 - 2013
Analitik Kimya - I, Undergraduate, 2012 - 2013
Genel Kimya Laboratuvarı I, Undergraduate, 2012 - 2013
Korozyon, Undergraduate, 2012 - 2013
Korozyon, Undergraduate, 2012 - 2013

Genel Kimya I, Undergraduate, 2012 - 2013
Endüstri Kimyası - I, Undergraduate, 2012 - 2013
Genel Kimya - II, Undergraduate, 2011 - 2012
Analitik kimya Lab. - II, Undergraduate, 2011 - 2012
Analitik Kimya Lab., Undergraduate, 2009 - 2010
Genel Kimya Laboratuvarı I, Undergraduate, 2010 - 2011
Analitik Kimya Lab., Undergraduate, 2009 - 2010
Analitik kimya Lab. - I, Undergraduate, 2009 - 2010
Elektroanalitik Kimya, Undergraduate, 2009 - 2010
Elektroanalitik Kimya, Undergraduate, 2009 - 2010
Analitik Kimya-I, Undergraduate, 2005 - 2006
Su Kimyası, Undergraduate, 2004 - 2005
Su Kimyası, Undergraduate, 2004 - 2005
Analitik Kimya, Undergraduate, 2004 - 2005
Analitik Kimya-II, Undergraduate, 2003 - 2004

Advising Theses

Elik A., ÇEŞİTLİ İÇECEK ve GIDA ÖRNEKLERİNDE PONCEAU 4R'NİN BELİRLENMESİ İÇİN YENİ BİR ANALİTİK YÖNTEMİN GELİŞTİRİLMESİ, Postgraduate, S.MERAL(Student), 2019
ELİK A., İlaç DNA etkileşiminin elektrokimyasal sensörler ile incelenmesi ve geliştirilmesi, Postgraduate, E.POLAT(Student), 2016
ELİK A., Anaplasma phagocytophilum'un tayinine yönelik elektrokimyasal DNA sensörü geliştirilmesi ve uygulamaları, Postgraduate, Ç.CEYLAN(Student), 2015
ELİK A., Hibrit Organik-İnorganik Membranların Hazırlanması, Karakterizasyonu ve Atık Su Arıtma İşlemlerinde Uygulanabilirliklerinin İncelenmesi, Doctorate, M.GÜNEY(Student), 2013
ELİK A., Çeşitli gıda örneklerinin alüminyum, silisyum analizleri için hazırlanması, Postgraduate, S.ARSLAN(Student), 2010
ELİK A., Çevresel metal kirliliğinin belirlenmesinde biyo-indikatör olarak biyo-kolektörlerin etkinliğinin araştırılması, Postgraduate, M.GÜNEY(Student), 2007
ELİK A., Gerçek örneklerin analize hazırlanmasında ultrasonik liçing tekniğinin optimizasyonu, Postgraduate, H.GÜNGÖR(Student), 2003
ELİK A., Sivas'ta trafik kökenli ağır metal kirliliğinin izlenmesi, Postgraduate, T.ÇINAR(Student), 2001

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Optimization of vortex-assisted supramolecular solvent-based liquid liquid microextraction for the determination of mercury in real water and food samples**
Lanjwani M. F., ELİK A., Altunay A. Ö., Tuzen M., Haq H. U., Boczkaj G.
Journal of Food Composition and Analysis, vol.134, 2024 (SCI-Expanded)
- II. **Development of an orbital shaker-assisted fatty acid-based switchable solvent microextraction procedure for rapid and green extraction of amoxicillin from complex matrices: Central composite design**
ELİK A., Demirkol Y., Ul Haq H., Boczkaj G., Sanaullah S., ALTUNAY N.
Food Chemistry, vol.454, 2024 (SCI-Expanded)
- III. **Investigation of use of hydrophilic/hydrophobic NADESs for selective extraction of As(III) and Sb(III) ions in vegetable samples: Air assisted liquid phase microextraction and chemometric optimization**
ELİK A., Doğan B., DEMİRBAŞ A., Haq H. U., Sanaullah S., ALTUNAY N.

Food Chemistry, vol.451, 2024 (SCI-Expanded)

- IV. **Optimization of deep eutectic solvent based ultrasonic assisted microextraction for determination of zearalenone residues in foods**
ELİK A., ALTUNAY N.
Journal of Food Composition and Analysis, vol.132, 2024 (SCI-Expanded)
- V. **Development of a vortex-assisted switchable-hydrophilicity solvent-based liquid phase microextraction for fast and reliable extraction of Zn (II), Fe (II), Pb (II), and Cd (II) from various baby food products**
Ul Haq H., ELİK A., Isci G., Ekici M., GÜR SOY N., Boczkaj G., ALTUNAY N.
Food Chemistry, vol.447, 2024 (SCI-Expanded)
- VI. **Rapid and safe determination of vitamin B1 in dairy products, fruits, nuts and vitamin tablets: Combination of natural deep eutectic solvents, experimental design and artificial intelligence**
YÜKSEK A. G., ELİK A., ALTUNAY N.
Journal of Food Composition and Analysis, vol.131, 2024 (SCI-Expanded)
- VII. **Preparation and investigation of green and cheap deep eutectic solvents for determination of essential and toxic metal ions at trace levels in different coffee products**
ELİK A., ALTUNAY N.
Sustainable Chemistry and Pharmacy, vol.39, 2024 (SCI-Expanded)
- VIII. **Sensitive method for determination of benzoic acid in beverages and food samples using air-assisted hydrophobic deep eutectic solvent-based dispersive liquid-liquid microextraction**
ALTUNAY N., Lanjwani M. F., Haq H. U., Tuzen M., ELİK A.
Sustainable Chemistry and Pharmacy, vol.38, 2024 (SCI-Expanded)
- IX. **Sustainable vortex assisted liquid phase microextraction based on fatty acid switchable solvent for selective and accurate analysis of manganese in food samples**
ELİK A., GÜR SOY N., ALTUNAY N.
Chemical Papers, vol.78, no.5, pp.3261-3272, 2024 (SCI-Expanded)
- X. **Magnetic hydrophobic deep eutectic solvents for orbital shaker-assisted dispersive liquid-liquid microextraction (MAGDES-OS-DLLME) - Determination of nickel and copper in food and water samples by FAAS**
ELİK A., Haq H. U., Boczkaj G., FESLİYAN S., Ablak Ö., ALTUNAY N.
Journal of Food Composition and Analysis, vol.125, 2024 (SCI-Expanded)
- XI. **Combination of homogeneous liquid-liquid extraction and vortex assisted dispersive liquid-liquid microextraction for the extraction and analysis of ochratoxin A in dried fruit samples: Central composite design optimization**
ELİK A., Ablak Ö., Haq H. U., Boczkaj G., ALTUNAY N.
Journal of Food Composition and Analysis, vol.124, 2023 (SCI-Expanded)
- XII. **Application of chemometric modeling for ionic liquid-based ultrasonic-assisted dispersive liquid-liquid microextraction: Analysis of fosetyl-aluminum in fruit and vegetable samples**
Haq H. U., ELİK A., DURUKAN H., SARAÇ H., DEMİRBAŞ A., Boczkaj G., GÜR SOY N., ALTUNAY N.
Journal of Food Composition and Analysis, vol.124, 2023 (SCI-Expanded)
- XIII. **An air-assisted dispersive liquid phase microextraction method based on a hydrophobic magnetic deep eutectic solvent for the extraction and preconcentration of melamine from milk and milk-based products**
ELİK A., FESLİYAN S., GÜR SOY N., Haq H. U., Castro-Muñoz R., ALTUNAY N.
Food Chemistry, vol.426, 2023 (SCI-Expanded)
- XIV. **Ultrasound-assisted dispersive liquid-liquid microextraction based on solidification of floating organic drop for analysis of propineb in water and food samples: Experimental modeling**
ELİK A., ALTUNAY N.
Sustainable Chemistry and Pharmacy, vol.35, 2023 (SCI-Expanded)
- XV. **A new ultrasound-assisted liquid-liquid microextraction method utilizing a switchable hydrophilicity solvent for spectrophotometric determination of nitrite in food samples**

- ELİK A., Altunay A. Ö., Lanjwani M. F., Tuzen M.
Journal of Food Composition and Analysis, vol.119, 2023 (SCI-Expanded)
- XVI. **Optimization of vortex-assisted switchable hydrophilicity solvent liquid phase microextraction for the selective extraction of vanillin in different matrices prior to spectrophotometric analysis**
ELİK A., ALTUNAY N.
Food Chemistry, vol.399, 2023 (SCI-Expanded)
- XVII. **Determination and extraction of acrylamide in processed food samples using alkanol-based supramolecular solvent-assisted dispersive liquid-liquid microextraction coupled with spectrophotometer: Optimization using factorial design**
ALTUNAY N., ELİK A., Tuzen M., Lanjwani M. F., Mogaddam M. R. A.
Journal of Food Composition and Analysis, vol.115, 2023 (SCI-Expanded)
- XVIII. **Investigation of the applicability of fatty acid-based deep eutectic solvent based air assisted liquid liquid microextraction for the rapid determination and extraction of butylparaben in cosmetic products**
Altunay A. Ö., ELİK A.
Sustainable Chemistry and Pharmacy, vol.30, 2022 (SCI-Expanded)
- XIX. **Application of levulinic acid-based natural deep eutectic solvents for extraction and determination of deltamethrin in food samples**
ELİK A., DURUKAN H., SARAÇ H., DEMİRBAŞ A., ALTUNAY N.
SUSTAINABLE CHEMISTRY AND PHARMACY, vol.30, 2022 (SCI-Expanded)
- XX. **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 (SCI-Expanded)
- XXI. **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 (SCI-Expanded)
- XXII. **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, vol.76, no.10, pp.6153-6165, 2022 (SCI-Expanded)
- XXIII. **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 (SCI-Expanded)
- XXIV. **Application of central composite design in parameters optimization of nano-structured supramolecular solvent based on liquid-liquid microextraction for determination of total lead in food, vegetables, grilled meat products, and water samples**
ELİK A.
SUSTAINABLE CHEMISTRY AND PHARMACY, vol.29, 2022 (SCI-Expanded)
- XXV. **A novel sonication assisted dispersive liquid-liquid microextraction method for methylparaben in cosmetic samples using deep eutectic solvent**
Altunay A. O., ELİK A.
SUSTAINABLE CHEMISTRY AND PHARMACY, vol.29, 2022 (SCI-Expanded)
- XXVI. **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 (SCI-Expanded)
- XXVII. **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., ELİK A., Farooque Lanjwani M., Tuzen M.
Microchemical Journal, vol.179, 2022 (SCI-Expanded)
- XXVIII. **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 (SCI-Expanded)
- XXIX. **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 (SCI-Expanded)
- XXX. **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 (SCI-Expanded)
- XXXI. **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 (SCI-Expanded)
- XXXII. **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 (SCI-Expanded)
- XXXIII. **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 (SCI-Expanded)
- XXXIV. **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 (SCI-Expanded)
- XXXV. **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 (SCI-Expanded)
- XXXVI. **Response surface methodology based on central composite design for optimizing temperature-controlled ionic liquid-based microextraction for the determination of histamine residual in canned fish products**
ELİK A.
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.98, 2021 (SCI-Expanded)
- XXXVII. **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 (SCI-Expanded)
- XXXVIII. **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 (SCI-Expanded)
- XXXIX. **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 (SCI-Expanded)
- XL. **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 (SCI-Expanded)
- XLII. **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 (SCI-Expanded)
- XLIII. **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 (SCI-Expanded)
- XLIV. **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 (SCI-Expanded)
- XLV. **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 (SCI-Expanded)
- XLVI. **Ultrasonic-assisted cloud point microextraction and spectrophotometric determination of Ponceau 4R in various beverage samples using nonionic surfactant PONPE 7.5**
Meral S., Elik A.
FOOD ADDITIVES AND CONTAMINANTS - PART A CHEMISTRY, ANALYSIS, CONTROL, EXPOSURE AND RISK ASSESSMENT, vol.38, no.4, pp.573-585, 2021 (SCI-Expanded)
- XLVII. **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 (SCI-Expanded)
- XLVIII. **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 (SCI-Expanded)
- XLIX. **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 (SCI-Expanded)
- XLX. **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 (SCI-Expanded)

- L. **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 (SCI-Expanded)
- LI. **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 (SCI-Expanded)
- LII. **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 (SCI-Expanded)
- LIII. **Surface decontamination of white cheese by pulsed UV light treatment**
KEKLİK N. M., ELİK A., SALGIN U., Demirci A., Kocer G.
JOURNAL OF FOOD SAFETY AND FOOD QUALITY-ARCHIV FUR LEBENSMITTELHYGIENE, vol.71, no.4, pp.86-92, 2020 (SCI-Expanded)
- LIV. **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 (SCI-Expanded)
- LV. **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 (SCI-Expanded)
- LVI. **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)
- LVII. **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 (SCI-Expanded)
- LVIII. **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 (SCI-Expanded)
- LIX. **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 (SCI-Expanded)
- LX. **Inactivation of Staphylococcus aureus and Escherichia coli O157:H7 on fresh kashar cheese with pulsed ultraviolet light**
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FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL, vol.25, no.8, pp.680-691, 2019 (SCI-Expanded)
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Congress and Symposium Activities

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