

## **Prof. ADİL ELİK**

### **Personal Information**

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### **International Researcher IDs**

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**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**

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

ELİK A., ÇEŞİTLİ İÇECEK ve GIDA ÖRNEKLERİNDEN 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 analizi için hazırlanması, Postgraduate, S.ARSLAN(Student), 2010  
ELİK A., Çevresel metal kirliliğinin belirlenmesinde biyo-indikatör olarak biyo-kollektörlerin etkinliğinin araştırılması, Postgraduate, M.GÜNEY(Student), 2007  
ELİK A., Gerçek örneklerin analize hazırlanmasında ultrasonik liçinq 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. **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., GÜRSOY N., Boczkaj G., ALTUNAY N.  
Food Chemistry, vol.447, 2024 (SCI-Expanded)
- II. **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)
- III. **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)

- IV. Sustainable vortex assisted liquid phase microextraction based on fatty acid switchable solvent for selective and accurate analysis of manganese in food samples  
ELİK A., GÜRSOY N., ALTUNAY N.  
Chemical Papers, vol.78, no.5, pp.3261-3272, 2024 (SCI-Expanded)
- V. 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)
- VI. 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., GÜRSOY N., ALTUNAY N.  
Journal of Food Composition and Analysis, vol.124, 2023 (SCI-Expanded)
- VII. 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)
- VIII. 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  
Elik A., Fesliyan S., Gürsoy N., Ul Haq H., Castro-Muñoz R., Altunay N.  
FOOD CHEMISTRY, no.426, pp.136573, 2023 (SCI-Expanded)
- IX. 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)
- X. 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)
- XI. 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)
- XII. 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)
- XIII. 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)
- XIV. 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)
- XV. 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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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 (SCI-Expanded)
- XXIV. **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)
- XXV. **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)
- XXVI. **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., Sırtbaşı B., ŞİMŞEK S., ELİK A., ALTUNAY N.  
Microchemical Journal, vol.172, 2022 (SCI-Expanded)
- XXVII. **Tergitol@SiO<sub>2</sub>@Fe3O<sub>4</sub> 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)
- XXVIII. 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)
- XXIX. 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)
- XXX. 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)
- XXXI. 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)
- XXXII. 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)
- XXXIII. 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)
- XXXIV. 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)
- 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 (SCI-Expanded)
- XXXVI. 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**  
Taşpinar H., Elik A., Kaya S., Altunay N.  
FOOD CHEMISTRY, vol.358, pp.129817, 2021 (SCI-Expanded)
- XXXVII. 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)
- XXXVIII. 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)
- XXXIX. 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., Aydin D.  
MICROCHEMICAL JOURNAL, vol.165, no.165, pp.106105, 2021 (SCI-Expanded)
- XL. 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)
- XLI. 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)
- XLII. 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)
- XLIII. 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)
- XLIV. 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)
- XLV. 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)
- XLVI. 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)
- XLVII. 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)
- XLVIII. 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)
- XLIX. 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)

- L. **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)
- LI. **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)
- LII. **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)
- LIII. **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)
- LIV. **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)
- LV. **Inactivation of *Staphylococcus aureus* and *Escherichia coli* O157:H7 on fresh kashar cheese with pulsed ultraviolet light**  
KEKLİK N. M., ELİK A., SALGIN U., Demirci A., Kocer G.  
FOOD SCIENCE AND TECHNOLOGY INTERNATIONAL, vol.25, no.8, pp.680-691, 2019 (SCI-Expanded)
- LVI. **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., Bingol D., Elik A., Gürkan R.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.221, 2019 (SCI-Expanded)
- LVII. **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 (SCI-Expanded)
- LVIII. **A novel, green and safe ultrasound-assisted emulsification liquid phase microextraction based on alcohol-based deep eutectic solvent for determination of patulin in fruit juices by spectrophotometry**  
Altunay N., Elik A., Gürkan R.  
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## Congress and Symposium Activities

2nd International Environmental Chemistry , Working Group, Antalya, Turkey, 2019

VIII. UMTEB INTERNATIONAL CONGRESS ON VOCATIONAL TECHNICAL SCIENCES, Working Group, Sivas, Turkey, 2019

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