

## Prof. Dr. ADİL ELİK

### Kişisel Bilgiler

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Yoksis Araştırmacı ID: 53992

### Eğitim Bilgileri

Doktora, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, Türkiye 1990 - 1995

Yüksek Lisans, Sivas Cumhuriyet Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Pr., Türkiye 1987 - 1990

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### Yaptığı Tezler

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### Araştırma Alanları

Tarımsal Bilimler, Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2023 - Devam Ediyor

Doç. Dr., Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2019 - 2023

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- 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**  
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- 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**  
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- IV. **Optimization of deep eutectic solvent based ultrasonic assisted microextraction for determination of zearalenone residues in foods**  
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- 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**  
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- 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**  
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- 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.  
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- 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**  
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- 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**  
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- 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**  
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- XII. **Application of chemometric modeling for ionic liquid-based ultrasonic-assisted dispersive liquid-liquid microextraction: Analysis of fosetyl-aluminum in fruit and vegetable samples**  
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- 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**  
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- 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.  
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- 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.  
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- 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.  
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- 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.  
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- 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.  
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- 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.  
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- XX. **Synthesized of a novel xanthate functionalized polypropylene as adsorbent for dispersive solid phase microextraction of caffeine using orbital shaker in mixed beverage matrices**  
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- 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**  
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- 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**  
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- XXIII. **Vortex assisted magnetic ionic liquid based dispersive liquid-liquid microextraction approach for determination of metribuzin in some plant samples with UV-Vis spectrophotometer**  
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- 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**  
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- XXV. **A novel sonication assisted dispersive liquid-liquid microextraction method for methylparaben in cosmetic samples using deep eutectic solvent**  
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- XXVI. **Chemometric approach for the spectrophotometric determination of chloramphenicol in various food matrices: Using natural deep eutectic solvents**  
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- XXVII. **Assessment of arsenic in water, rice and honey samples using new and green vortex-assisted liquid**

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- 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**  
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- 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**  
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- 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**  
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- 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**  
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- 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**  
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- XXXIV. **Experimental and theoretical investigation for the spectrophotometric determination of thiabendazole in fruit samples**  
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- XXXV. **Investigations of Hg(II) analysis in real samples via computational chemistry, experimental design, and green microextraction approach**  
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- 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.  
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- 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.  
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- 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**  
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- 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**  
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- XLIII. **Development of sensitive and accurate solid-phase microextraction procedure for preconcentration of As(III) ions in real samples**  
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- 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.  
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- 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**  
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- 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.  
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- XLIX. **Spectrophotometric determination of aflatoxin B1 in food sample: Chemometric optimization and theoretical supports for reaction mechanisms and binding regions**  
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- 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**  
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- 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**  
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