

## Res. Asst. Nursu Aylin KASA

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Yildiz Technical University, Fen Bilimleri Enstitüsü, Analitik Kimya (Dr), Turkey 2022 - Continues

Postgraduate, Yildiz Technical University, Fen Bilimleri Enstitüsü, Analitik Kimya (YI) (Tezli), Turkey 2019 - 2022

### Dissertations

Postgraduate, Determination of cadmium in food matrices at trace levels using novel on-line and off-line preconcentration strategies, Yildiz Technical University, Fen Bilimleri Enstitüsü, Analitik Kimya (YI) (Tezli), 2022

### Research Areas

Chemistry, Analytical Chemistry

### Academic Titles / Tasks

Research Assistant, Istanbul Medipol University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2022 - Continues

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

- I. **Detection of copper in boiled water samples from traditional coffee pots by applying deep eutectic solvent-assisted reduced graphene oxide-coated magnetic nanocomposite-based microextraction strategy**  
KASA N. A., Zeytinci N. K., Aydın B. N., BAKIRDERE S.  
Chemical Papers, vol.78, no.4, pp.2185-2192, 2024 (SCI-Expanded)
- II. **Cloud point extraction-slotted quartz tube with four-exit holes-flame atomic absorption spectrometry combination for the determination of cobalt at trace levels in fennel tea samples after complexation with a Schiff base ligand**  
Özcan R., Kasa N. A., BAKIRDERE E. G., BAKIRDERE S.  
Journal of Food Measurement and Characterization, vol.15, no.4, pp.2943-2950, 2021 (SCI-Expanded)
- III. **Accurate and sensitive analytical method for trace iron determination in clove tea and tap water**

**samples by slotted quartz tube-flame atomic absorption spectrometry after its preconcentration with supramolecular solvent-based liquid-phase microextraction**

Yıldırım B. B., Gölcü A., Zaman B. T., Kasa N. A., BAKIRDERE E. G., BAKIRDERE S.

Chemical Papers, vol.75, no.8, pp.4157-4164, 2021 (SCI-Expanded)

- IV. **Determination of Iron in Licorice Samples by Slotted Quartz Tube Flame Atomic Absorption Spectrometry (FAAS) with Matrix Matching Calibration Strategy after Complexation with Schiff Base Ligand-Based Dispersive Liquid-Liquid Microextraction**  
Kasa N. A., BAKIRDERE E. G.  
Analytical Letters, vol.54, no.8, pp.1284-1294, 2021 (SCI-Expanded)
- V. **Ultra-trace cadmium determination in eucalyptus and rosemary tea samples using a novel method: Deep eutectic solvent based magnetic nanofluid liquid phase microextraction-slotted quartz tube-flame atomic absorption spectrometry**  
Kasa N. A., Zaman B. T., BAKIRDERE S.  
Journal of Analytical Atomic Spectrometry, vol.35, no.11, pp.2565-2572, 2020 (SCI-Expanded)
- VI. **Development of a sensitive microextraction strategy for the accurate determination of tebuconazole and etrimfos by gas chromatography-mass spectrometry**  
Akarçay N. A., Chormey D. S., Kasa N. A., Zaman B. T., BAKIRDERE S.  
International Journal of Environmental Analytical Chemistry, vol.100, no.11, pp.1197-1208, 2020 (SCI-Expanded)
- VII. **A Simple and Green Vortex-Assisted Switchable Solvent-Based Microextraction Method by Using Schiff Base Ligand Complexation for Iron Determination in Mineral Spring Water Samples Prior to Slotted Quartz Tube Flame Atomic Absorption Spectrophotometry**  
Kasa N. A., BAKIRDERE E. G., BAKIRDERE S.  
Water, Air, and Soil Pollution, vol.231, no.8, 2020 (SCI-Expanded)
- VIII. **A sensitive and accurate analytical method for the determination of cadmium in food samples: Molybdenum coated T-shape slotted quartz tube flame atomic absorption spectrophotometry**  
Kasa N. A., Büyükpınar Ç., Erulaş A. F., BAKIRDERE S.  
Food Chemistry, vol.319, 2020 (SCI-Expanded)
- IX. **Liquid phase microextraction strategies and their application in the determination of endocrine disruptive compounds in food samples**  
Chormey D. S., Zaman B. T., Kasa N. A., BAKIRDERE S.  
TrAC - Trends in Analytical Chemistry, vol.128, 2020 (SCI-Expanded)
- X. **Hydride generation-flame atomic absorption spectrometric quantification of trace lead after the extraction by fatty acid functionalized Fe<sub>3</sub>O<sub>4</sub> nanoparticles assisted dispersive solid-phase extraction: A sensitive, precise and accurate analytical method**  
Akkaya E., Öztürk Er E., Kasa N. A., ÇETİN G., KOMESLİ O. T., BAKIRDERE S.  
Journal of Analytical Atomic Spectrometry, vol.35, no.5, pp.961-966, 2020 (SCI-Expanded)
- XI. **Determination of cadmium at trace levels in parsley samples by slotted quartz tube-flame atomic absorption spectrometry after preconcentration with cloud point extraction**  
Kasa N. A., Sel S., Chormey D. S., BAKIRDERE S.  
Measurement: Journal of the International Measurement Confederation, vol.147, 2019 (SCI-Expanded)
- XII. **Determination of palladium in soil samples by slotted quartz tube-flame atomic absorption spectrophotometry after vortex-assisted ligandless preconcentration with magnetic nanoparticle-based dispersive solid-phase microextraction**  
Aylin Kasa N. A., Sel S., Özkan B. Ç., BAKIRDERE S.  
Environmental Monitoring and Assessment, vol.191, no.11, 2019 (SCI-Expanded)
- XIII. **Sensitive and Accurate Determination of Cobalt at Trace Levels by Slotted Quartz Tube-Flame Atomic Absorption Spectrometry Following Preconcentration with Dispersive Liquid-Liquid Microextraction**  
Deniz S., Kasa A., Sel S., Büyükpınar Ç., BAKIRDERE S.  
Analytical Letters, vol.52, no.5, pp.745-753, 2019 (SCI-Expanded)
- XIV. **A new combination for the determination of ultratrace cadmium: solid-phase microextraction by stearic acid-coated magnetic nanoparticles prior to batch-type hydride generation atomic absorption**

## **spectrometry**

Kasa N. A., Akkaya E., Zaman B. T., ÇETİN G., BAKIRDERE S.

Environmental Monitoring and Assessment, vol.190, no.10, 2018 (SCI-Expanded)

- XV. **Development of an efficient and sensitive analytical method for the determination of copper at trace levels by slotted quartz tube atomic absorption spectrometry after vortex-assisted dispersive liquid-liquid microextraction in biota and water samples using a novel ligand**  
Zaman B. T., BAKIRDERE E. G., Kasa N. A., Deniz S., Sel S., Chormey D. S., BAKIRDERE S.  
Environmental Monitoring and Assessment, vol.190, no.7, 2018 (SCI-Expanded)
- XVI. **A new method for the determination of cadmium at ultratrace levels using slotted quartz tube-flame atomic absorption spectrometry after preconcentration with stearic acid coated magnetite nanoparticles**  
Akkaya E., Aylin Kasa N. A., ÇETİN G., BAKIRDERE S.  
Journal of Analytical Atomic Spectrometry, vol.32, no.12, pp.2433-2438, 2017 (SCI-Expanded)
- XVII. **Determination of cadmium at ultratrace levels by dispersive liquid-liquid microextraction and batch type hydride generation atomic absorption spectrometry**  
Kasa N. A., Chormey D. S., Büyükpınar Ç., TURAK F., Budak T. B., BAKIRDERE S.  
Microchemical Journal, vol.133, pp.144-148, 2017 (SCI-Expanded)

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

- I. **Magnetic Nanofluid based Microextraction Strategy for Cadmium Determination in Rosemary and Eucalyptus Tea Extracts**  
KASA N. A., Zaman B. T., BAKIRDERE S.  
4th International Environmental Chemistry Congress (4th Envirochem 2022), Antalya, Turkey, 30 October 2022
- II. **Cloud Point Extraction Method by using Novel Schiff Base Ligand for Cobalt Determination in Fennel Tea Samples Prior to Slotted Quartz Tube Flame Atomic Absorption Spectrophotometry System**  
Özcan R., BAKIRDERE E. G., KASA N. A., BAKIRDERE S.  
2nd International Congress on Analytical and Bioanalytical Chemistry (2nd ICABC 2020), Antalya, Turkey, 11 - 14 March 2020
- III. **A Novel Analytical Strategy for the Determination of Cadmium in Milk Powder, Linden and Mint Samples: Molybdenum Coated T-Shaped Slotted Quartz Tube-Flame Atomic Absorption Spectrophotometry**  
KASA N. A., BÜYÜKPINAR Ç., Erulaş A. F., BAKIRDERE S.  
2nd International Congress on Analytical and Bioanalytical Chemistry (2nd ICABC 2020), Antalya, Turkey, 11 March 2020
- IV. **Demir Metalinin Yarıklı Kuvars Tüp (YKT) Eklentili Alevli Atomik Absorpsiyon Spektrofotometresinde (AAAS) Schiff Baz Kompleksleştirici Esaslı Dağıtıcı Sıvı-Sıvı Mikroekstraksiyon (DSSME) Sonrası Meyan Kökü Örneklerinde Eser Seviyelerde Tayini**  
KASA N. A., BAKIRDERE E. G.  
31. Ulusal Kimya Kongresi, İstanbul, Turkey, 10 September 2019
- V. **A Simple and Green Switchable Solvent Based Microextraction Method by Using Novel Schiff Base Ligand for Iron Determination in Mineral Spring Waters Prior to Slotted Quartz Tube-Atomic Absorption Spectrophotometry**  
KASA N. A., BAKIRDERE E. G., BAKIRDERE S.  
1st International Congress on Analytical and Bioanalytical Chemistry (1st ICABC 2019), Antalya, Turkey, 27 March 2019
- VI. **Determination of Ultratrace Cadmium by a New Combination: Solid Phase Microextraction by Stearic Acid Coated Magnetic Nanoparticles Prior To Batch Type Hydride Generation Atomic Absorption Spectrometry**  
KASA N. A., Akkaya E., Zaman B. T., ÇETİN G., BAKIRDERE S.

8th Black Sea Basin Conference on Analytical Chemistry (8th BBCAC), İstanbul, Turkey, 09 May 2018

**VII. Determination of Cadmium in Wastewater at Ultratrace Levels by Dispersive Liquid-Liquid Microextraction and Batch Type Hydride Generation Atomic Absorption Spectrometry**

KASA N. A., Chormey D. S., BÜYÜKPINAR Ç., TURAK F., BUDAK T., BAKIRDERE S.

7th International IUPAC Conference on Green Chemistry, Moskva, Russia, 02 October 2017

**VIII. Determination of Copper at Trace Levels in Mineral Water Samples by Slotted Quartz Tube Atomic Absorption Spectrometry after Dispersive Liquid-Liquid Microextraction**

Zaman B. T., KASA N. A., Deniz S., Sel S., Chormey D. S., BÜYÜKPINAR Ç., BAKIRDERE E. G., BAKIRDERE S.

7th International IUPAC Conference on Green Chemistry, Moskva, Russia, 02 October 2017

## **Congress and Symposium Activities**

19. Asian Chemical Congress, Attendee, İstanbul, Turkey, 2023