

## Prof. ORKUN ALP

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AHB-9128-2022

ScopusID: 24437697400

Yoksis Researcher ID: 134070

### Education Information

Post Doctorate, University of Cincinnati, United States Of America 2009 - 2010

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (Dr), Turkey 2004 - 2008

Postgraduate, Gazi University, Sağlık Bilimleri Enstitüsü, Analitik Kimya Anabilim Dalı, Turkey 2001 - 2004

Undergraduate, Gazi University, Eczacılık Fakültesi, Eczacılık Pr. (4 Yıllık), Turkey 1995 - 2000

### Foreign Languages

English, C2 Mastery

### Dissertations

Doctorate, Arsenik, antimon ve kalayın tungsten sarmalda tuzaklanarak hidrür oluşturmali atomik absorpsiyon spektrometri yöntemi ile tayini ve girişim çalışmaları, Gazi University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (Dr), 2008

Postgraduate, Çeşitli tekstil ürünlerinden yapay ter çözeltisine özütlenebilen kurşun ve kadmiyumun kimyasal buhar oluşturmali atomik absorpsiyon spektrometresi ile tayinleri için yöntem geliştirilmesi, Gazi University, Sağlık Bilimleri Enstitüsü, Analitik Kimya Anabilim Dalı, 2004

### Research Areas

Basic Pharmaceutics Sciences, Pharmacology and Therapeutics, Analytical Chemistry, Chemistry, Analytical Chemistry, Natural Sciences

### Academic Titles / Tasks

Professor, Gazi University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri, 2022 - Continues

Associate Professor, Gazi University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri, 2014 - 2022

Expert, Gazi University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri, 2004 - 2014

## Academic and Administrative Experience

Vice Dean, Gazi University, Eczacılık Fakültesi, 2022 - 2023

Faculty Management Board Member, Gazi University, Eczacılık Fakültesi, 2019 - 2022

Faculty Board Member, Gazi University, Eczacılık Fakültesi, 2016 - 2019

## Courses

Kütle Spektrometri Yöntemlerinin Metallomik Yaklaşımında Kullanımı, Doctorate, 2021 - 2022, 2019 - 2020, 2018 - 2019

Farmasötik Analitik Kimya I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Temel Analitik Kimya Kavramları II, Postgraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

## Advising Theses

Alp O., Non-Chromatographic Inorganic Arsenic Speciation By Hydride Generation Atomic Fluorescence Spectrometry, Postgraduate, G.TOSUN(Student), 2019

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

- I. **Characterization and Determination of Selenium Nanoparticles in Dietary Supplements by Single Particle Inductively Coupled Plasma Mass Spectrometry**  
Akbaba T. N., ALP O., Alshana U., ERTAŞ N.  
FOOD ANALYTICAL METHODS, 2024 (SCI-Expanded)
- II. **Monitoring of Essential and Toxic Elements in Multivitamin/Mineral Effervescent Tablet Supplements and Safety Assessment**  
Uslu İ., ALP O., KARAHALİL B.  
Biological Trace Element Research, 2024 (SCI-Expanded)
- III. **GC-MS Based Metabolomics Analysis to Evaluate Short-Term Effect of Tumor Removal on Patients with Early-Stage Breast Cancer**  
Beksac K., REÇBER T., Cetin B., ALP O., Kaynaroglu V., KIR S., NEMUTLU E.  
JOURNAL OF CHROMATOGRAPHIC SCIENCE, vol.61, pp.612-618, 2023 (SCI-Expanded)
- IV. **Size Dependent Dissolution of Silver Nanoparticles in Human Monocytic/Macrophage-Like U937 Cells and Speciation by Single Particle-Inductively Coupled Plasma-Mass Spectrometry (SP-ICP-MS)**  
ALP O., ENGİN A. B., ERTAŞ N.  
ANALYTICAL LETTERS, vol.55, no.18, pp.2912-2927, 2022 (SCI-Expanded)
- V. **Characterization of the Silver Species Released From Clothing by Single Particle-Inductively Coupled Plasma-Mass Spectrometry Using a Microsecond Dwell Time**  
Akbaba T. N., Ertas N., Alp O.  
ANALYTICAL LETTERS, vol.55, no.4, pp.580-595, 2022 (SCI-Expanded)
- VI. **Improving classification performance of extreme gradient boosting on small-sized dataset to classify Turkish and Italian wines along with elemental profiling by inductively coupled plasma-mass spectrometry**  
Alp H., Alp O.  
SPECTROSCOPY LETTERS, vol.55, no.1, pp.1-12, 2022 (SCI-Expanded)
- VII. **A rapid on-line non-chromatographic hydride generation atomic fluorescence spectrometry technique for speciation of inorganic arsenic in drinking water**  
ALP O., Tosun G.

- FOOD CHEMISTRY, vol.290, pp.10-15, 2019 (SCI-Expanded)
- VIII. **In-situ trapping arsenic hydride on tungsten coil and comparing interference effect of some hydride forming elements using different types of atomizers**  
ALP O., ERTAŞ N.  
MICROCHEMICAL JOURNAL, vol.128, pp.108-112, 2016 (SCI-Expanded)
- IX. **Pilot Study of Environmental Monitoring of Konya Region near Abandoned Mercury Mine in Turkey**  
KARAHALİL B., Ulukaya M., ALP O.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, vol.88, no.2, pp.150-153, 2012 (SCI-Expanded)
- X. **Determination of cadmium in high salt content matrices by flow injection cold vapor atomic absorption spectrometry**  
ALP O., Demiroz H., Ataman O. Y., ERTAŞ N.  
TURKISH JOURNAL OF CHEMISTRY, vol.36, no.2, pp.247-256, 2012 (SCI-Expanded)
- XI. **Determination of Nitrogen Mustard Hydrolysis Products in Rat Urine Samples Using GC-MS**  
Kenar L., ALP O.  
JOURNAL OF CHROMATOGRAPHIC SCIENCE, vol.49, no.5, pp.361-364, 2011 (SCI-Expanded)
- XII. **Selenium effects on arsenic cytotoxicity and protein phosphorylation in human kidney cells using chip-based nanoLC-MS/MS**  
ALP O., Zhang Y., Merino E. J., Caruso J. A.  
METALLOMICS, vol.3, no.5, pp.482-490, 2011 (SCI-Expanded)
- XIII. **Arsenic-induced protein phosphorylation changes in HeLa cells**  
ALP O., Merino E. J., Caruso J. A.  
ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol.398, no.5, pp.2099-2107, 2010 (SCI-Expanded)
- XIV. **Determination of tin by in situ trapping of stannane on a resistively heated iridium treated tungsten coil surface and interference studies**  
ALP O., ERTAŞ N.  
TALANTA, vol.81, pp.516-520, 2010 (SCI-Expanded)
- XV. **COMPARISON OF ORGANIC SOLVENTS USED FOR THE DETERMINATION OF MUSTARD GAS HYDROLYSIS PRODUCTS IN URINE SAMPLES USING GAS CHROMATOGRAPHY-MASS SPECTROMETRY**  
Kenar L., ALP O.  
ANALYTICAL LETTERS, vol.43, no.3, pp.417-423, 2010 (SCI-Expanded)
- XVI. **Determination of inorganic and total mercury by flow injection vapor generation atomic absorption spectrometry using a W-coil atomizer**  
ALP O., ERTAŞ N.  
JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY, vol.24, no.1, pp.93-96, 2009 (SCI-Expanded)
- XVII. **In situ trapping of antimony hydride on iridium-coated tungsten coil and interference studies**  
ALP O., ERTAŞ N.  
JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY, vol.23, no.7, pp.976-980, 2008 (SCI-Expanded)

## Articles Published in Other Journals

- I. **DNA Repair and Detoxifying Gene Polymorphisms in Patients with Multiple Sclerosis and Dental Amalgam Fillings**  
Elkama A., Orhan G., Alp O., Tosun G., Öztekin Z. N., Karahalil B.  
Gazi Medical Journal, vol.32, no.1, pp.33-39, 2021 (ESCI)
- II. **Evaluation of Arsenic Concentration in Poultry and Calf Meat Samples by Hydride Generation Atomic Fluorescence Spectrometry**  
Ertas N., Burgaz S., Berkkan A., Alp O.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.34, no.2, pp.396-404, 2021 (ESCI)

## Books & Book Chapters

### I. Analitik Kimya Pratikleri

Orbey M. T., Günden Göğler N., Ertas N., Yılmaz Ş., Berkkan A., Basan H., Şatana Kara H. E., Alp O.  
Gazi, Ankara, 2000

## Refereed Congress / Symposium Publications in Proceedings

- I. **Radiosensitizer-Releasing Fiducial 'Nanofiducial': A New Concept in Radiotherapy**  
Aral I. P., Tezel G., Ivan G. A., Aksakal A. K., Gani Z., Aytaç Arslan S., Eroglu I., Alp O., Eroglu H., Tezcan Y.  
65th ANNUAL MEETING OF THE AMERICAN-SOCIETY-FOR-RADIATION-ONCOLOGY (ASTRO), California, United States Of America, 1 - 04 October 2023
- II. **Tek Parçacık Endüktif Eşleşmiş Plazma-Kütle Spektrometresi İle Gıda Takviyelerindeki Selenyum Nanoparçacıkların Tayini Ve Karakterizasyonu**  
Akbaba T. N., Alp O., Ertas N.  
10. Ulusal Analitik Kimya Kongresi, Muğla, Turkey, 8 - 11 September 2022, pp.107
- III. **BİTKİSEL KAYNAKLI FARMASÖTİK ÜRÜNLERDE İNDÜKTİF EŞLEMİŞ PLAZMA-KÜTLE SPEKTROMETRİ (ICP-MS) İLE ELEMENTAL SAFSIZLIKLARIN TAYİNİ**  
Çil C., Akbaba T. N., Alp O.  
10. Ulusal Analitik Kimya Kongresi, Muğla, Turkey, 7 - 11 September 2022, pp.193
- IV. **Characterization and Determination of Selenium Nanoparticles in Dietary Supplements by Single Particle Inductively Coupled Plasma Mass Spectrometry**  
Akbaba T. N., Alp O., Ertas N.  
NanoTR-16, Ankara, Turkey, 5 - 08 September 2022, pp.234
- V. **METHOD DEVELOPMENT FOR SELENIUM NANOPARTICLE DETERMINATION AND CHARACTERIZATION USING SINGLE PARTICLE INDICTIVELY COUPLED PLASMA MASS SPECTROMETRY**  
Akbaba T. N., Alp O., Ertas N.  
3rd International Gazi Pharma Symposium Series, Ankara, Turkey, 8 - 10 September 2021, pp.98
- VI. **Tek parçacık ICP-MS ile nanoparçacık karakterizasyonu ve miktar tayini**  
Ertas N., Engin A. B., Alp O.  
Ulusal Spektroskopi Kongresi, Ankara, Turkey, 7 - 08 November 2019
- VII. **Determination of metal levels in urine samples of children with exposure to urban and industrial air pollution**  
ALJBORY M., ALP O., ÖZATA H. H., ÇAKMAK PEHLİVANLI A., YAY O. D., GAGA E. E., ALTUĞ H., ÇAKMAK G.  
International conference on agriculture, food, veterinary and pharmacy science, Turkey, 16 - 18 April 2019
- VIII. **SIMULTANEOUS DETERMINATION OF DISSOLVED SILVER AND SILVER NANOPARTICLES IN WATER SAMPLES BY SP-ICP-MS**  
ALP O., ALSHANA U., ERTAŞ N.  
2nd International Gazi Pharma Symposium Series, Ankara, Turkey, 11 - 13 October 2017, pp.382
- IX. **Tek Parçacık-İndüktif Eşleşmiş Plazma Spektrometri (SP-ICP-MS) ile Tekstil Ürünlerinde GümüşNanoparçacık Tayini**  
ALP O., ERTAŞ N.  
29. Ulusal Kimya Kongresi, Ankara, Turkey, 10 - 14 September 2017, pp.38
- X. **MULTİPLE SKLEROZ HASTALARINDA AMALGAM DİŞ DOLGULARINDAKİ CİVA ÇİNKO VE BAKIR MARUZİYETİNE GENETİK DUYARLILIĞIN ARAŞTIRILMASI**  
ORHAN G., ELKAMA A., ALP O., TOSUN G., ÖZTEKİN N., KARAHALİL B.  
52.Ulusal Nöroloji Kongresi, Turkey, 25 November - 01 December 2016
- XI. **NON CHROMATOGRAPHIC INORGANIC ARSENIC SPECIATION ANALYSIS IN WATER SAMPLES BY HYDRIDE GENERATION ATOMIC FLUORESCENCE SPECTROMETRY**  
TOSUN G., ALP O.

## Supported Projects

ERTAŞ N., ALP O., Project Supported by Higher Education Institutions, Farklı yüzey deęiřtiricilerin selenyum nanoparçacıkların boyutu ve kararlılıęı üzerindeki etkisinin tek parçacık endüktif eşleşmiş plazma spektrometresi ile incelenmesi, 2019 - 2021

Alp O., Ertaş N., Engin A. B., TUBITAK Project, Gümüş nanoparçacıęa (AgNP) maruz bırakılmış makrofaj hücrelerinde eş zamanlı AgNP ve iyonik gümüş türlerinin tek parçacık-ICP-MS (SP-ICP-MS) ve tek hücre-ICP-MS (SC-ICP-MS) ile tayini, 2018 - 2021

ALP O., Project Supported by Higher Education Institutions, Tasarlanmış gümüş nanoparçacıkların Tek Parçacık ICP-MS ile tayini için yöntem geliştirilmesi, 2017 - 2019

ALP O., Project Supported by Higher Education Institutions, ECZACILIK FAKÜLTESİ LABORATUVARLARININ MODERNİZASYONU, 2015 - 2017

ÇAKMAK G., HACIŞEVKİ A., ALP O., TAKKA S., ÖNKOL T., ULUDAĞ M. O., AKKOL E., Project Supported by Higher Education Institutions, ECZACILIK FAKÜLTESİ LABORATUVARLARININ MODERNİZASYONU, 2015 - 2017

ALP O., Project Supported by Higher Education Institutions, Ayırma yöntemi kullanmadan inorganik arsenik türlerinin hidrür oluřturmalı atomik floresans spektrometri yöntemiyle tayini, 2015 - 2016

## Metrics

Publication: 32

Citation (WoS): 126

Citation (Scopus): 149

H-Index (WoS): 8

H-Index (Scopus): 8

## Scholarships

2219-Yurt Dışı Doktora Sonrası Arařtırma Bursu, TUBITAK, 2009 - 2010

## Non Academic Experience

University of Cincinnati Chemistry Department