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Eğitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2005 - 2011

Yüksek Lisans, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2002 - 2005

Lisans, İstanbul Üniversitesi, Türkiye 1998 - 2002

Yaptığı Tezler

Doktora, İnsan saç örneklerinde eser elementlerin katı örnekleme atomik absorpsiyon Yöntemi ile tayini, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2011

Yüksek Lisans, Slurry tekniği ile eser elementlerin zenginleştirilmesi ve atomik absorpsiyon spektrometrisi ile tayini, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2005

Araştırma Alanları

Temel Bilimler, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Doç.Dr., İstanbul Teknik Üniversitesi, Fen-Edebiyat, Kimya, 2022 - Devam Ediyor

Prof.Dr., İstanbul Aydın Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler Bölümü, 2020 - 2022

Doç.Dr., İstanbul Aydın Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler Bölümü, 2015 - 2020

Yrd.Doç.Dr., İstanbul Aydın Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler Bölümü, 2013 - 2015

Akademik İdari Deneyim

Bölüm Başkanı, İstanbul Aydın Üniversitesi, Sağlık Hizmetleri Meslek Yüksekokulu, Tıbbi Hizmetler Ve Teknikler Bölümü, 2014 - 2022

Enstitü Müdürü, İstanbul Aydın Üniversitesi, Sağlık Bilimleri Enstitüsü, 2016 - 2019

Yönetilen Tezler

Baysal A., Akman S., Distribution of trace elements in tobacco and shisha products in Turkey and accumulation on their smoke, Yüksek Lisans, G.ŞİRİN(Öğrenci), 2017

Baysal A., Özcan M., Polisakkarit kaplı titanyum nanopartiküller kullanılarak bazı ağır metallerin giderilmesi, Yüksek Lisans, C.KUZNEK(Öğrenci), 2016

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Oxidative stress, biofilm-formation and activity responses of P. aeruginosa to microplastic-treated sediments: Effect of temperature and sediment type**
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Toxicology Mechanisms and Methods, cilt.34, sa.1, ss.72-97, 2024 (SCI-Expanded)
- III. **A characterization and an exposure risk assessment of microplastics in settled house floor dust in Istanbul, Turkey**
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- IV. **Oxidative stress and chemical characteristics of indoor PM2.5: a case study in an underground (-3rd) floor**
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- V. **Sorption of thiamin (vitamin B1) onto micro(nano)plastics: pH dependence and sorption models**
Kılincer M., Saygin H., Özyürek M., Baysal A.
Journal of Environmental Science and Health, Part A, cilt.0, sa.X, ss.1-11, 2023 (SCI-Expanded)
- VI. **Elemental, Oxidative and Functional Group Characteristics of Sediments in the Industrial Marine area in Tuzla Aydinli Bay, Istanbul, Turkey Between 2016 and 2020**
Baysal A.
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, cilt.110, sa.85, ss.1-13, 2023 (SCI-Expanded)
- VII. **Multispectroscopic Characterization of Surface Interaction between Antibiotics and Micro(nano)-sized Plastics from Surgical Masks and Plastic Bottles**
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- VIII. **An assessment of ecological and possible human health risks from Cr and Ni in sediments affected by the industrial marine area in Tuzla Aydinli Bay, Istanbul, Turkey between 2016-2020**
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STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT, cilt.37, sa.1, ss.203-217, 2023 (SCI-Expanded)

- IX. **Interaction of nanoplastics with simulated biological fluids and their effect on the biofilm formation**
Saygin H., Baysal A.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, cilt.29, sa.53, ss.80775-80786, 2022 (SCI-Expanded)
- X. **Influence of Ca species on the surface properties of TiO₂ nanoparticles and its possible transformation**
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- XI. **Single and combined effects of antibiotics and nanoplastics from surgical masks and plastic bottles on pathogens**
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- XII. **Co-occurrence of antibiotics and micro(nano)plastics: a systematic review between 2016-2021**
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- XIII. **Interaction of amino acids with nanoplastic traces and their effect on Staphylococcus aureus**
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- XIV. **Insights into the Degradation Behavior of Submicroplastics by Klebsiella pneumoniae**
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- XV. **Microplastic Occurrences in Sediments Collected from Marmara Sea-Istanbul, Turkey**
Baysal A., Saygin H., Ustabasi G. S.
Bulletin of Environmental Contamination and Toxicology, cilt.105, sa.4, ss.522-529, 2020 (SCI-Expanded)
- XVI. **Degradation of sub mu-sized bioplastics by clinically important bacteria under sediment and seawater conditions: Impact on the bacteria responses**
Saygin H., Baysal A.
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- XVII. **Risks of graphene nanomaterial contamination in the soil: evaluation of major ions**
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ENVIRONMENTAL MONITORING AND ASSESSMENT, cilt.192, sa.10, 2020 (SCI-Expanded)
- XVIII. **Similarities and Discrepancies Between Bio-Based and Conventional Submicron-Sized Plastics: In Relation to Clinically Important Bacteria**
Saygin H., Baysal A.
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- XIX. **Biofilm Formation of Clinically Important Bacteria on Bio-Based and Conventional Micro/Submicron-Sized Plastics**
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- XX. **Age-related physicochemical differences in ZnO nanoparticles in the seawater and their bacterial interaction**
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ENVIRONMENTAL MONITORING AND ASSESSMENT, cilt.192, sa.5, 2020 (SCI-Expanded)
- XXI. **Bacterial interactions of microplastics extracted from toothpaste under controlled conditions and the influence of seawater**
Ustabasi G. S., Baysal A.

- SCIENCE OF THE TOTAL ENVIRONMENT, cilt.703, 2020 (SCI-Expanded)
- XXII. **An insight into the dependency on sample preparation for (eco) toxicity assessment of TiO₂ nanoparticles**
Baysal A., Saygin H., Ustabasi G. S.
ENVIRONMENTAL MONITORING AND ASSESSMENT, cilt.192, sa.2, 2020 (SCI-Expanded)
- XXIII. **The miniaturised process for lead removal from water samples using novel bioconjugated sorbents**
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INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, cilt.99, sa.14, ss.1397-1414, 2019 (SCI-Expanded)
- XXIV. **Occurrence and risk assessment of microplastics from various toothpastes**
Ustabasi G. S., Baysal A.
ENVIRONMENTAL MONITORING AND ASSESSMENT, cilt.191, sa.7, 2019 (SCI-Expanded)
- XXV. **Influence of Al₂O₃ Nanoparticles on the Soil Elements**
Baysal A., Saygin H., Ustabasi G. S.
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- XXVI. **The miniaturised solid phase extraction of some trace metals using graphene nanoplatelets by GFAAS**
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International Journal of Environmental Analytical Chemistry, cilt.98, sa.7, ss.685-694, 2018 (SCI-Expanded)
- XXVII. **Assessment of chromium and nickel levels in surface sea waters and sediments from industrial marine area in Tuzla Aydinli Bay, Istanbul Turkey**
Baysal A., Akman S.
Marine Pollution Bulletin, cilt.130, ss.293-298, 2018 (SCI-Expanded)
- XXVIII. **Influence of environmental media on carbon nanotubes and graphene nanoplatelets towards bacterial toxicity**
Baysal A., Saygin H., Ustabasi G. S.
Archives of Environmental Protection, cilt.44, sa.3, ss.85-98, 2018 (SCI-Expanded)
- XXIX. **Starch coated titanium dioxide nanoparticles as a challenging sorbent to separate and preconcentrate some heavy metals using graphite furnace atomic absorption spectrometry**
Baysal A., Kuznek C., Özcan M.
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BAYSAL A., Kuznek C., Özcan M.
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- XXXI. **Effect of zinc oxide nanoparticles on the trace element contents of soils**
Baysal A., Saygin H.
CHEMISTRY AND ECOLOGY, cilt.34, sa.8, ss.713-726, 2018 (SCI-Expanded)
- XXXII. **Interaction of PM_{2.5} airborne particulates with ZnO and TiO₂ nanoparticles and their effect on bacteria**
Baysal A., Saygin H., Ustabasi G. S.
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- XXXIII. **Chemical characterization of surface snow in Istanbul (NW Turkey) and their association with atmospheric circulations**
Baysal A., Baltacı H., Özbek N., Destanoglu O., Ustabasi G. S., Gumus G.
Environmental Monitoring and Assessment, cilt.189, sa.6, 2017 (SCI-Expanded)
- XXXIV. **Determination of sulfur in human hair using high resolution continuum source graphite furnace molecular absorption spectrometry and its correlation with total protein and albumin**

- Ozbek N., Baysal A.
Spectrochimica Acta - Part B Atomic Spectroscopy, cilt.130, ss.17-20, 2017 (SCI-Expanded)
- XXXV. **Determination of sulfur by high-resolution continuum source atomic absorption spectrometry: Review of studies over the last 10 years**
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- XXXVI. **Determination of Mercury in Istanbul Airborne Particles Using Solid Sampling High-Resolution Continuum Source Graphite Furnace Atomic Absorption Spectrometry**
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- XXXVII. **Investigation of fluorine content in PM_{2.5} airborne particles of Istanbul, Turkey**
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- XXXVIII. **A new approach for the determination of sulphur in airborne particles by HR-CS ETAAS**
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- XXXIX. **Lead and cadmium sorption in water samples using modified nano-sized cobalt aluminate**
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- XL. **A new approach for the determination of sulphur in food samples by high-resolution continuum source flame atomic absorption spectrometer**
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- XLI. **Influence of surface properties of zinc oxide nanoparticles on their cytotoxicity**
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- XLII. **Chemical characterization of PM_{2.5} fractions of urban aerosol collected in Budapest and Istanbul**
Szigeti T., Mihucz V. G., Ovari M., BAYSAL A., ATILGAN S., Akman S., Zaray G.
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- XLIII. **Monitoring of Pd in airborne particulates by solid sampling high-resolution continuum source electrothermal atomic absorption spectrometry**
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- XLIV. **Slurry sampling electrothermal atomic absorption spectrometric determination of chromium after separation/enrichment by mercaptoundecanoic acid modified gold coated TiO₂ nanoparticles**
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- XLV. **A practical method for the determination of sulphur in coal samples by high-resolution continuum source flame atomic absorption spectrometry**
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- XLVI. **Determination of some trace elements by flame atomic absorption spectrometry after preconcentration and separation by Escherichia coli immobilized on multiwalled carbon nanotubes**
AYDEMIR N., Tokman N., AKARSUBASI A. T., BAYSAL A., Akman S.
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- XLVII. **Comparison of digestion and solid sampling techniques for the determination of Pb and Cu in blackpepper**
BAYSAL A., Akman S.
International Journal of Food Science and Technology, cilt.46, sa.7, ss.1515-1521, 2011 (SCI-Expanded)
- XLVIII. **A rapid solid sampling method for determination of nickel and copper along human hair by ETAAS**
BAYSAL A., Akman S.

Microchemical Journal, cilt.98, sa.2, ss.291-296, 2011 (SCI-Expanded)

- XLIX. **FAAS slurry analysis of lead and copper ions preconcentrated on titanium dioxide nanoparticles coated with a silver shell and modified with cysteamine**
Baysal A., Saatci A. D., Kahraman M., Akman S.
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- L. **A rapid method for the determination of Pb, Cu and Sn in dried tomato sauces with solid sampling electrothermal atomic absorption spectrometry**
Baysal A., Özcan M., AKMAN S.
Food and Chemical Toxicology, cilt.49, sa.6, ss.1399-1403, 2011 (SCI-Expanded)
- LI. **In vivo evolutionary engineering of a boron-resistant bacterium: Bacillus boroniphilus**
SEN M., YILMAZ U., BAYSAL A., Akman S., Çakar Z. P.
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- LII. **The use of gold nanoparticles as an effective modifier for the determination of arsenic and antimony by electrothermal atomic absorption spectrometry**
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- LIV. **Interaction of multi-functional silver nanoparticles with living cells**
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- LV. **The use of silver nanoparticles as an effective modifier for the determination of arsenic and antimony by electrothermal atomic absorption spectrometry**
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- LVI. **Determination of lead in hair and its segmental analysis by solid sampling electrothermal atomic absorption spectrometry**
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- LVII. **Solid-phase extraction of Mn(II) and slurry analysis of the sorbent by electrothermal atomic absorption spectrometry**
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- LVIII. **The solid phase extraction of lead using silver nanoparticles - Attached to Silica gel prior to its determination by FAAS**
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- LX. **Slurry analysis after lead collection on a sorbent and its determination by electrothermal atomic absorption spectrometry**
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- LXI. **The use of solid-phase extraction and direct injection of a copolymer sorbent as slurry into the graphite furnace prior to determination of cadmium by ETAAS**
BAYSAL A., Tokman N., Akman S.

Diğer Dergilerde Yayınlanan Makaleler

- I. **Culture dependent analysis of bacterial activity, biofilm-formation and oxidative stress of seawater with the contamination of microplastics under climate change consideration**
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- II. **Impact of test conditions on the bacterial bioassay in the presence of tio₂ nanoparticles**
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- III. **Importance of sample pretreatment on the bacterial bioassay for toxicity of zno nanoparticles**
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- IV. **Physico-chemical and toxicological behaviour of Al₂O₃ nanoparticles in fine particulate matter**
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- V. **Adsorption of copper and zinc from sulfate media on a commercial sorbent**
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- VI. **Optical studies of semiconductor Quantum Dots**
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Kitap & Kitap Bölümleri

- I. **Smart nanosensors and methods for detection of nanoparticles and their potential toxicity in air**
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- II. **Interactions of nanomaterials with the soil**
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- III. **Nanomaterials-based absorbents**
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- IV. **Solid-Phase Extraction**
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- V. **Spectrochemical Methods Of Analysis**
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- VI. **Environmental Sampling And Sample Preparation**
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VII. Heavy Metal Determination in Environmental Samples

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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

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Baysal A., Ustabasi G. S., Özbek N.

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II. Trace element concentrations in soil and their accumulation on tree and fruit

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III. The Solid Phase Extraction of Some Trace Metals Using Graphene Nanoplatelets by HR-CS AAS

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IV. A novel approach for the determination of fluorine and sulphur in airborne particles by HR CSAAS

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II. Eser Analiz Çalıştayı, Türkiye, 27 - 30 Haziran 2012

Desteklenen Projeler

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Baysal A., SAYGIN H., Yükseköğretim Kurumları Destekli Proje, Sekonder plastik parçacıkların exsitu sediment ortamında biofilm ve oksidatif davranışların incelenmesi, 2022 - 2024

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