

## Doç. Dr. BURÇİN BOZAL PALABIYIK

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ScopusID: 55544573600

Yoksis Araştırmacı ID: 109996

### Eğitim Bilgileri

Doktora, Ankara Üniversitesi, Sağlık Bilimleri Enstitüsü, Analitik Kimya (Dr), Türkiye 2009 - 2015

Yüksek Lisans, Ankara Üniversitesi, Sağlık Bilimleri Enstitüsü, Analitik Kimya (YI) (Tezli), Türkiye 2007 - 2009

Lisans, Ankara Üniversitesi, Eczacılık Fakültesi, Eczacılık Pr., Türkiye 2003 - 2007

### Yaptığı Tezler

Doktora, Yeni nesil nanosensör tasarımı ve antiparkinson ilaç analizlerinde kullanımı, Ankara Üniversitesi, Sağlık Bilimleri Enstitüsü, Analitik Kimya (Dr), 2015

Yüksek Lisans, Lornoksikam'xxın elektroanalitik incelenmesi ve tayini, Ankara Üniversitesi, Sağlık Bilimleri Enstitüsü, Analitik Kimya (YI) (Tezli), 2009

### Araştırma Alanları

Sağlık Bilimleri, Temel Bilimler

### Akademik Unvanlar / Görevler

Doç. Dr., Ankara Üniversitesi, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2023 - Devam Ediyor

Araştırma Görevlisi, Ankara Üniversitesi, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2010 - Devam Ediyor

### Verdiği Dersler

Laboratuvar Güvenliği, Lisans, 2017 - 2018

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

1. Spectroscopic, electrochemical, and molecular docking studies of the interaction between the

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- III. **Green electrochemical nanosensor platform design for mexiletine detection based on Citrus reticulata peel-mediated iron nanoparticles and quantum dots and investigation of the adsorption mechanism by the DFT-D3 method**  
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- IV. **Development of electrochemical and stability-indicating chromatographic methods for the determination of cefprozil**  
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- V. **Voltammetric Analysis of Thiram with Bimetallic Nanosensor and Investigation of Adsorption Mechanism by DFT-D3 Method**  
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- VII. **Exploring molecular interaction of cefpirome with human serum albumin: In vitro and in silico approaches**  
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- VIII. **Molecularly imprinted polymers (MIPs) combined with nanomaterials as electrochemical sensing applications for environmental pollutants**  
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- IX. **Development of the electrochemical, spectroscopic and molecular docking approaches toward the investigation of interaction between DNA and anti-leukemic drug azacytidine**  
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- X. **Development of a Diamond Nanoparticles-based Nanosensor for Detection and Determination of Antiviral Drug Favipiravir**  
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- XI. **Electrochemical Biosensor Design with Multi-walled Carbon Nanotube to Display DNA-Schiff Base Interaction**  
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- XII. **Electroanalytical Investigation and Simultaneous Determination of Etodolac and Thiocolchicoside at a Non-Modified Glassy Carbon Electrode in Anionic Surfactant Media**  
Selcuk O., Erkmén C., BOZAL PALABIYIK B., USLU B.  
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- XIII. **Interaction of citalopram and escitalopram with calf Thymus DNA: A spectrofluorometric, voltammetric, and liquid chromatographic approach**  
Dindar C. K., Erkmén C., YILDIRIM S., BOZAL PALABIYIK B., USLU B.

- JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, cilt.195, 2021 (SCI-Expanded)
- XIV. **Revisiting pharmaceutical analysis in the light of new technologies-volume ii**  
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- XV. **Electrochemical analysis for pharmaceuticals by the advantages of metal oxide nanomaterials**  
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- XVII. **Molecularly Imprinted Electrochemical Sensors: Analytical and Pharmaceutical Applications Based on Ortho-phenylenediamine Polymerization**  
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- XVIII. **Electrochemical Detection of Vascular Endothelial Growth Factor by Molecularly Imprinted Polymer**  
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- XX. **Nanosensors in Biomarker Detection**  
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- XXI. **Electrochemical detection of ct-dsDNA on nanomaterial-modified carbon based electrodes**  
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- XXVIII. **Voltammetric Investigation and Determination of Piribedil in Pharmaceutical Dosage Forms Using Carbon-Based Electrodes**

- BOZAL PALABIYIK B., USLU B.  
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- XXIX. **Comparative study for voltammetric investigation and trace determination of pramipexole at bare and carbon nanotube-modified glassy carbon electrodes**  
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- XXX. **Diffusion, Adsorption and Electrode Kinetics of Electro-oxidations on a Stationary Solid Electrode**  
BOZAL PALABIYIK B., KURBANOĞLU S., USLU B., ÖZKAN S. A., ZUMAN P.  
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- XXXI. **Advances in electrochemical DNA biosensors and their interaction mechanism with pharmaceuticals**  
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- XXXV. **RECENT ANALYTICAL APPLICATIONS ON ANTIHYPERTENSIVE DRUGS**  
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- XL. **Functionalized carbon nanotubes-With silver nanoparticles to fabricate a sensor for the determination of zolmitriptan in its dosage forms and biological samples**  
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- XLI. **ELECTROCHEMICAL APPROACH FOR THE SENSITIVE DETERMINATION OF ANTICANCER DRUG EPIRUBICIN IN PHARMACEUTICALS IN THE PRESENCE OF ANIONIC SURFACTANT**  
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- XLII. **Multi-walled carbon nanotube modified glassy carbon electrode as a voltammetric nanosensor for the sensitive determination of anti-viral drug valganciclovir in pharmaceuticals**  
DOĞAN TOPAL B., BOZAL PALABIYIK B., USLU B., ÖZKAN S. A.  
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- XLIII. **Validation of liquid chromatographic method for simultaneous determination of quinapril and hydrochlorothiazide in pharmaceutical dosage forms Kinapril ve hidroklorotiazidin farmasötik dozaj formlarından eş zamanlı tayini için sıvı kromatografisi metot validasyonu**  
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- XLIV. **Fully Validated Simultaneous Determination of Bisoprolol Fumarate and Hydrochlorothiazide in Their Dosage Forms Using Different Voltammetric, Chromatographic, and Spectrophotometric Analytical Methods**  
Bozal Palabiyik B., Gümüştas M., Doğan Topal B., Uslu B., Özkan S. A.  
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- XLVIII. **Quantitative Analysis of Irbesartan in Pharmaceuticals and Human Biological Fluids by Voltammetry**  
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## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Voltammetric determination of antipsychotic drug flupentixol HCl in human serum at a boron-doped diamond electrode**  
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- II. **Sensitive electrochemical determination of Cefpirome in human urine using differential pulse voltammetry**  
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- III. **Elektrokimyasal Yöntemler**  
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- IV. **Validation of Liquid Chromatographic Method for Simultaneous Determination of Quinapril and Hydrochlorothiazide in Pharmaceutical Dosage Forms**  
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- V. **A Review of Electroanalytical Techniques for Determination of Anti-HIV Drugs**  
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**VI. Anodic Voltammetry of Ciprofloxacin and its Analytical Applications**

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## **Kitap & Kitap Bölümleri**

- I. **Future prospects and concluding remarks for electroanalytical applications of quantum dots**  
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- III. **Overview of Analytical Methods in Alzheimer's Disease Drugs: Optical, Chromatographic, and Electrochemical Methods**  
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- IV. **Reviewing Analytical Methods for Detection and Determination of Tadalafil**  
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- V. **Elektrokimyasal İlaç Analizlerinde Moleküler Baskılanmış Polimer Kullanımı**  
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- VII. **New Trends in Electrochemical Sensors Modified with Carbon Nanotubes and Graphene for Pharmaceutical Analysis**  
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- IX. **Eczacılık Terimleri Sözlüğü İlaç Analizleri Terimleri**  
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## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

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- III. **Spektroskopik ve Elektrokimyasal Tekniklerle Antikanser İlaç Azasitidin-DNA Arasındaki Etkileşimin İncelenmesi**  
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- IV. **Yeşil kimya tabanlı elektroanalitik sensor hazırlamada soğuk plazma kullanımı**  
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- VIII. **Novel Electrochemical Nanosensor Based on COOH-Functionalized Multi Walled Carbon Nanotubes Decorated with Quantum Dots for The Determination of Clopidogrel**  
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## **Desteklenen Projeler**

Bozal Palabıyık B., Kanca N., Çabuk T. Z., Uslu B., TÜBİTAK Projesi, Non-Steroidale Antiinflatuvar İlaçların Süt Numunelerinden Hassas ve Hızlı Tayini İçin Nanoteknoloji Tabanlı Hibrit Analitik Yöntem Geliştirilmesi, 2023 - 2025

## **Metrikler**

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## **Burslar**

2219 Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Üniversite, 2017 - 2017