

# **Doç. Dr. BURÇİN BOZAL PALABIYIK**

## **Kişisel Bilgiler**

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## **Eğitim Bilgileri**

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

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

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

## **Yaptığı Tezler**

Doktora, Yeni nesil nanosensör tasarımları 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 (Yl) (Tezli), 2009

## **Araştırma Alanları**

Sağlık Bilimleri, Temel Bilimler

## **Akademik Unvanlar / Görevler**

Araştırma Görevlisi Dr., 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 Yayınlanan Makaleler**

- I. Voltammetric Determination of Metrafenone Using an Iridium Oxide Nanoparticle - Ionic Liquid Nanocomposite Modified Glassy Carbon Electrode

- ÇELİK M., BOZAL PALABIYIK B., Kanbes Dindar C., USLU B.  
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- II. **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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- V. **Electrochemical biosensors for rapid diagnosis of bacterial infections: Design, targets and applications in clinical setting**  
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- VI. **Exploring molecular interaction of cefpirome with human serum albumin: In vitro and in silico approaches**  
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Rahman S., BOZAL PALABIYIK B., Unal D. N., Erkmen C., Siddiq M., Shah A., USLU B.  
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- VIII. **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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- IX. **Development of a Diamond Nanoparticles-based Nanosensor for Detection and Determination of Antiviral Drug Favipiravir**  
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- X. **Electrochemical Biosensor Design with Multi-walled Carbon Nanotube to Display DNA-Schiff Base Interaction**  
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- XI. **Electroanalytical Investigation and Simultaneous Determination of Etodolac and Thiocolchicoside at a Non-Modified Glassy Carbon Electrode in Anionic Surfactant Media**  
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- XII. **Interaction of citalopram and escitalopram with calf Thymus DNA: A spectrofluorometric, voltammetric, and liquid chromatographic approach**  
Dindar C. K., Erkmen C., YILDIRIM S., BOZAL PALABIYIK B., USLU B.  
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- XIII. **Revisiting pharmaceutical analysis in the light of new technologies-volume i**  
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- XV. **Electrochemical analysis for pharmaceuticals by the advantages of metal oxide nanomaterials**  
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- XVI. **Molecularly Imprinted Electrochemical Sensors: Analytical and Pharmaceutical Applications Based on Ortho-phenylenediamine Polymerization**  
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- XVII. **Electrochemical Detection of Vascular Endothelial Growth Factor by Molecularly Imprinted Polymer**  
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- XVIII. **A novel electrochemical method for the detection of oxymetazoline drug based on MWCNTs and TiO<sub>2</sub> nanoparticles**  
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- XIX. **VOLTAMMETRIC DETERMINATION OF VARDENAFIL ON MODIFIED ELECTRODES CONSTRUCTED BY GRAPHITE, METAL OXIDES AND FUNCTIONALIZED MULTI-WALLED CARBON NANOTUBES**  
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- XX. **Electrochemical detection of ct-dsDNA on nanomaterial-modified carbon based electrodes**  
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- XXI. **Nanosensors in Biomarker Detection**  
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- XXII. **MWCNT/CdSe quantum dot modified glassy carbon electrode for the determination of clopidogrel bisulfate in tablet dosage form and serum samples**  
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- XXV. **Electrochemical Detectors in Liquid Chromatography: Recent Trends in Pharmaceutical and Biomedical Analysis**  
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- XXVI. **VOLTAMMETRIC DETERMINATION OF ROPINIROLE AT GLASSY CARBON ELECTRODE EMPLOYING PULSED TECHNIQUES**  
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- XXVII. **Voltammetric Investigation and Determination of Piribedil in Pharmaceutical Dosage Forms Using Carbon-Based Electrodes**  
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- XXVIII. **Diffusion, Adsorption and Electrode Kinetics of Electro-oxidatons on a Stationary Solid Electrode**  
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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. Advances in electrochemical DNA biosensors and their interaction mechanism with pharmaceuticals  
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- XXXIII. RECENT ANALYTICAL APPLICATIONS ON ANTIHYPERTENSIVE DRUGS  
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- XXXIV. INVESTIGATION OF VOLTAMMETRIC BEHAVIOR AND ELECTROANALYTICAL DETERMINATION OF ANTICANCER EPIRUBICIN VIA GLASSY CARBON ELECTRODE USING DIFFERENTIAL PULSE AND SQUARE WAVE VOLTAMMETRY TECHNIQUES  
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- XXXV. ELECTROCHEMICAL OXIDATION MECHANISM OF ANTICANCER DRUG NILOTINIB  
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- XXXVIII. Sensitive voltammetric assay of etoposide using modified glassy carbon electrode with a dispersion of multi-walled carbon nanotube  
BOZAL PALABIYIK B., DOĞAN TOPAL B., USLU B., CAN A., ÖZKAN S. A.  
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- XXXIX. Functionalized carbon nanotubes-With silver nanoparticles to fabricate a sensor for the determination of zolmitriptan in its dosage forms and biological samples  
Karadas N., BOZAL PALABIYIK B., USLU B., ÖZKAN S. A.  
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- XL. ELECTROCHEMICAL APPROACH FOR THE SENSITIVE DETERMINATION OF ANTICANCER DRUG EPIRUBICIN IN PHARMACEUTICALS IN THE PRESENCE OF ANIONIC SURFACTANT  
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- XLI. Multi-walled carbon nanotube modified glassy carbon electrode as a voltammetric nanosensor for the sensitive determination of anti-viral drug valganciclovir in pharmaceuticals  
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- XLII. 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**  
Altunsoy S., BOZAL PALABIYIK B., USLU B.  
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- XLIII. Fully Validated Simultaneous Determination of Bisoprolol Fumarate and Hydrochlorothiazide in Their Dosage Forms Using Different Voltammetric, Chromatographic, and Spectrophotometric Analytical Methods**  
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- XLIV. Electrochemical Study of the Interaction Between the Antibacterial Drug Gemifloxacin and dsDNA Using Pencil Graphite Electrode**  
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- XLV. Applications of Carbon Based Electrodes for Voltammetric Determination of Lornoxicam in Pharmaceutical Dosage Form and Human Serum**  
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## Düzen 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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## **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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## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. Design of a green electrochemical nanosensor platform for the detection of mexiletine  
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- III. Spektroskopik ve Elektrokimyasal Tekniklerle Antikanser İlaç Azasitidin-DNA Arasındaki Etkileşimin İncelenmesi  
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10. Ulusal Analitik Kimya Kongresi, Muğla, Türkiye, 7 - 11 Eylül 2022
- IV. **Yeşil kimya tabanlı elektroanalitik sensor hazırlamada soğuk plazma kullanımı**  
Kanbeş Dindar Ç., Bozal Palabıyık B., Uslu B.  
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- V. **A molecularly imprinted electrochemical sensor for selective detection of COVID-19 drug-favipiravir in biological samples**  
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- X. **Study on electrochemical properties and DNA interaction of a novel schiff base**  
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## Burslar

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