

Doç. Dr. BURÇİN BOZAL PALABIYIK

Kişisel Bilgiler

İş Telefonu: [+90 312 203 3181](tel:+903122033181)

E-posta: bbozal@ankara.edu.tr

Diğer E-posta: burcinbozal@hotmail.com

Web: <https://avesis.ankara.edu.tr/bbozal>

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0002-2525-4192

Publons / Web Of Science ResearcherID: AAH-6176-2020

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 Yayınlanan Makaleler

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

antihistamine drug desloratadine and dsDNA

BİLKAY M., Kanbes-Dindar C., BOZAL PALABIYIK B., EREN G., ŞATANA KARA H. E., USLU B.
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- II. **Voltammetric Determination of Metrafenone Using an Iridium Oxide Nanoparticle - Ionic Liquid Nanocomposite Modified Glassy Carbon Electrode**
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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**
Ortak A., Erkmen C., BOZAL PALABIYIK B., USLU B.
Journal of the Iranian Chemical Society, cilt.21, sa.1, ss.263-273, 2024 (SCI-Expanded)
- V. **Voltammetric Analysis of Thiram with Bimetallic Nanosensor and Investigation of Adsorption Mechanism by DFT-D3 Method**
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- VI. **Electrochemical biosensors for rapid diagnosis of bacterial infections: Design, targets and applications in clinical setting**
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Electroanalysis, cilt.35, sa.11, 2023 (SCI-Expanded)
- VII. **Exploring molecular interaction of cefpirome with human serum albumin: In vitro and in silico approaches**
Erkmen C., BOZAL PALABIYIK B., Tayyab H., Kabir M. Z., Mohamad S. B., USLU B.
Journal of Molecular Structure, cilt.1275, 2023 (SCI-Expanded)
- VIII. **Molecularly imprinted polymers (MIPs) combined with nanomaterials as electrochemical sensing applications for environmental pollutants**
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TRENDS IN ENVIRONMENTAL ANALYTICAL CHEMISTRY, cilt.36, 2022 (SCI-Expanded)
- IX. **Development of the electrochemical, spectroscopic and molecular docking approaches toward the investigation of interaction between DNA and anti-leukemic drug azacytidine**
Nimal R., Unal D. N., Erkmen C., BOZAL PALABIYIK B., Siddiq M., EREN G., Shah A., USLU B.
BIOELECTROCHEMISTRY, cilt.146, 2022 (SCI-Expanded)
- X. **Development of a Diamond Nanoparticles-based Nanosensor for Detection and Determination of Antiviral Drug Favipiravir**
Dindar C. K., BOZAL PALABIYIK B., USLU B.
ELECTROANALYSIS, cilt.34, sa.7, ss.1174-1186, 2022 (SCI-Expanded)
- XI. **Electrochemical Biosensor Design with Multi-walled Carbon Nanotube to Display DNA-Schiff Base Interaction**
Munir A., BOZAL PALABIYIK B., EREN G., Shah A., Ali S., Uddin N., USLU B.
ELECTROANALYSIS, cilt.33, sa.7, ss.1761-1770, 2021 (SCI-Expanded)
- XII. **Electroanalytical Investigation and Simultaneous Determination of Etodolac and Thiocolchicoside at a Non-Modified Glassy Carbon Electrode in Anionic Surfactant Media**
Selcuk O., Erkmen C., BOZAL PALABIYIK B., USLU B.
ELECTROANALYSIS, cilt.33, sa.5, ss.1290-1298, 2021 (SCI-Expanded)
- XIII. **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.

- 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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Current Analytical Chemistry, cilt.17, sa.9, ss.1213-1214, 2021 (SCI-Expanded)
- 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**
BOZAL PALABIYIK B., Lettieri M., USLU B., Marrazza G.
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- XIX. **A novel electrochemical method for the detection of oxymetazoline drug based on MWCNTs and TiO₂ nanoparticles**
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- XX. **Nanosensors in Biomarker Detection**
BOZAL PALABIYIK B., USLU B., Marrazza G.
NEW DEVELOPMENTS IN NANOSENSORS FOR PHARMACEUTICAL ANALYSIS, ss.327-380, 2019 (SCI-Expanded)
- XXI. **Electrochemical detection of ct-dsDNA on nanomaterial-modified carbon based electrodes**
BOZAL PALABIYIK B., DOĞAN TOPAL B., Moghaddam A. B., Ozkan S. A., Kazemzad M., USLU B.
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- XXII. **VOLTAMMETRIC DETERMINATION OF VARDENAFIL ON MODIFIED ELECTRODES CONSTRUCTED BY GRAPHITE, METAL OXIDES AND FUNCTIONALIZED MULTI-WALLED CARBON NANOTUBES**
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- XXIII. **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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- XXIV. **Electrochemical Detectors in Liquid Chromatography: Recent Trends in Pharmaceutical and Biomedical Analysis**
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- XXV. **In-Vitro Drug Dissolution Studies in Medicinal Compounds**
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- XXVI. **Biosensor-Based Methods for the Determination of Foodborne Pathogens**
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FOODBORNE DISEASES, cilt.15, ss.379-420, 2018 (SCI-Expanded)
- XXVII. **VOLTAMMETRIC DETERMINATION OF ROPINIROLE AT GLASSY CARBON ELECTRODE EMPLOYING PULSED TECHNIQUES**
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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**
BOZAL PALABIYIK B., USLU B.
IONICS, cilt.22, sa.12, ss.2519-2528, 2016 (SCI-Expanded)
- 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**
KURBANOĞLU S., DOĞAN TOPAL B., Plata Rodriguez E., BOZAL PALABIYIK B., ÖZKAN S. A., USLU B.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, cilt.775, ss.8-26, 2016 (SCI-Expanded)
- XXXII. **A novel electroanalytical nanosensor based on MWCNT/Fe₂O₃ nanoparticles for the determination of antiparkinson drug ropinirole**
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- XXXIII. **Voltammetric behavior and determination of antidepressant drug paroxetine at carbon-based electrodes**
Brycht M., Skrzypek S., Karadas-Bakirhan N., Smarzewska S., BOZAL PALABIYIK B., ÖZKAN S. A., USLU B.
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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**
Kurbanoğlu S., Bozal Palabiyik B., Gümüştas M., Uslu B., Özkan S. A.
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- XXXV. **RECENT ANALYTICAL APPLICATIONS ON ANTIHYPERTENSIVE DRUGS**
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- XXXVII. **DEVELOPMENT AND VALIDATION OF A STABILITY-INDICATING RP-LC METHOD FOR THE DETERMINATION OF ANTICANCER DRUG EPIRUBICIN IN PHARMACEUTICALS**
Kurbanoğlu S., Bozal Palabiyik B., Gümüştas M., Şanlı S., Uslu B., Özkan S. A.
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- XXXVIII. **Investigation of anticancer drug lapatinib and its interaction with dsDNA by electrochemical and spectroscopic techniques**
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- XXXIX. **Sensitive voltammetric assay of etoposide using modified glassy carbon electrode with a dispersion of multi-walled carbon nanotube**
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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**
Bozal Palabiyik B., Kurbanoğlu S., Gümüştas M., Uslu B., Özkan S. A.

- REVUE ROUMAINE DE CHIMIE, cilt.58, sa.7-8, ss.647-658, 2013 (SCI-Expanded)
- XLII. **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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SENSORS AND ACTUATORS B-CHEMICAL, cilt.177, ss.841-847, 2013 (SCI-Expanded)
- 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**
Altunsoy S., BOZAL PALABIYIK B., USLU B.
Turkish Journal of Pharmaceutical Sciences, cilt.10, sa.2, ss.255-262, 2013 (SCI-Expanded)
- 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.
JOURNAL OF AOAC INTERNATIONAL, cilt.96, sa.1, ss.42-51, 2013 (SCI-Expanded)
- XLV. **Electrochemical Study of the Interaction Between the Antibacterial Drug Gemifloxacin and dsDNA Using Pencil Graphite Electrode**
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- XLVI. **Applications of Carbon Based Electrodes for Voltammetric Determination of Lornoxicam in Pharmaceutical Dosage Form and Human Serum**
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- XLVII. **Electroanalytical Studies and Simultaneous Determination of Amlodipine Besylate and Atorvastatine Calcium in Binary Mixtures Using First Derivative of the Ratio-Voltammetric Methods**
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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**
Bozal Palabiyik B.
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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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- II. Quantum dots-based sensors using solid electrodes**
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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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- VI. Nanosensors in Biomarker Detection**
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- VII. New Trends in Electrochemical Sensors Modified with Carbon Nanotubes and Graphene for Pharmaceutical Analysis**
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- VIII. Biosensor-Based Methods for the Determination of Foodborne Pathogens**
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- IX. Eczacılık Terimleri Sözlüğü İlaç Analizleri Terimleri**
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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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- II. Electrochemical determination of enzyme inhibitor thiram based on bimetallic nanoparticles utilizing green electroanalytical nanosensor**

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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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- VI. **Development of diamond nanoparticle based sensor for electrochemical evaluation and determination of COVID-19 drug favipiravir**
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- VII. **Electrochemical Investigation of Surfactant Effect on the Etodolac and Thiocolchicoside Signals**
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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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- X. **Study on electrochemical properties and DNA interaction of a novel schiff base**
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Metrikler

Yayın: 117

Atf (WoS): 657

Atf (Scopus): 556

H-İndeks (WoS): 15

H-İndeks (Scopus): 13

Burslar

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