

## Doç. Dr. SEVİNÇ KURBANOĞLU

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ScopusID: 55391563600

Yoksis Araştırmacı ID: 121907

### Eğitim Bilgileri

Doktora, Ankara Üniversitesi, Sağlık Bilimleri Enstitüsü, Analitik Kimya (Dr), Türkiye 2011 - 2016

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Yl) (Tezli), Türkiye 2008 - 2010

Lisans, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Türkiye 2003 - 2008

### Yabancı Diller

İngilizce, C1 İleri

### Yaptığı Tezler

Doktora, Çeşitli ilaçların tirozinaz inhibisyonundaki rollerini incelemek amaçlı elektrokimyasal nanobiyosensor ve mikroçip tasarımı, Ankara Üniversitesi, Sağlık Bilimleri Enstitüsü, Analitik Kimya (Dr), 2016

Yüksek Lisans, Amperometric microbial and enzymatic biosensors based on conducting polymers, Orta Doğu Teknik Üniversitesi, Genel Biyoloji Anabilim Dalı, Kimya (Yl) (Tezli), 2010

### Araştırma Alanları

Eczacılık, Temel Eczacılık Bilimleri, Analitik Kimya, Biyosensör, Kimya, Analitik Kimya, Elektroanalitik Yöntemler

### Akademik Unvanlar / Görevler

Doç. Dr., Ankara Üniversitesi, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2021 - Devam Ediyor

Araştırma Görevlisi, Ankara Üniversitesi, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2011 - 2021

### Akademik İdari Deneyim

## Verdiği Dersler

Laboratory Safety, Lisans, 2023 - 2024  
Analytical Chemistry, Lisans, 2022 - 2023  
Electroanalytical Chemistry, Yüksek Lisans, 2022 - 2023  
Separation Techniques, Yüksek Lisans, 2022 - 2023  
Analitik Validasyon , Lisans, 2022 - 2023  
Laboratuvar Güvenliği, Lisans, 2018 - 2019, 2017 - 2018  
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## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A Strep-Tag Imprinted Polymer Platform for Heterogenous Bio(electro)catalysis**  
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- II. **Rapid determination of uracil in biological fluids at mercury thin film electrode for early detection of potential 5-fluorouracil toxicity due to dihydropyrimidine dehydrogenase deficiency**  
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- III. **Nanostructured Metal Oxide-Based Electrochemical Biosensors in Medical Diagnosis**  
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- IV. **Electrochemical Investigations and Molecular Docking Analysis to Evaluate the Molnupiravir-Calf Thymus dsDNA Interaction**  
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- IX. **Elucidating the interaction of antidepressant drug paroxetine with ct-dsDNA: A comparative study by electrochemical, spectroscopic, and molecular docking approaches**  
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- X. **Recent Trends in Pharmaceuticals and Natural Products Research - Part I**  
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- XI. **Electrodeposited copper nanocubes on multi-layer graphene: A novel nanozyme for ultrasensitive dopamine detection from biological samples**  
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- XII. **Electrochemical biosensor based on three components random conjugated polymer with fullerene (C60)**  
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- XIII. **Understanding electrooxidation mechanism of anticancer drugs utilizing ultrafast pump probe spectroscopy**  
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- XIV. **Trends in electrochemical nanosensors for the analysis of antioxidants**  
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- XV. **Evaluation of the Interaction of Cinacalcet with Calf Thymus dsDNA: Use of Electrochemical, Spectrofluorimetric and Molecular Docking Methods**  
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- XVII. **The interaction between dna and three intercalating anthracyclines using electrochemical dna nanobiosensor based on metal nanoparticles modified screen-printed electrode**  
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- XVIII. **Current trends and roles of surfactants for chromatographic and electrochemical sensing**  
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- XIX. **Electrochemical catechol biosensor based on beta-cyclodextrin capped gold nanoparticles and inhibition effect of ibuprofen**  
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- XX. **Multi-Purpose electrochemical tyrosinase nanobiosensor based on poly (3,4 ethylenedioxythiophene) nanoparticles decorated graphene quantum dots: Applications to hormone drugs analyses and inhibition studies**  
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- XXI. **Latest trends for biogenic amines detection in foods: Enzymatic biosensors and nanozymes applications**  
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- XXII. **Graphene-Gold Nanoparticles Nanozyme-Based Electrochemical Sensor with Enhanced Laccase-Like Activity for Determination of Phenolic Substrates**  
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- XXIII. **Simple and robust: The claims of protein sensing by molecularly imprinted polymers**  
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- XXIV. **Revisiting pharmaceutical analysis in the light of new technologies-volume i**  
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- XXV. **Electrochemical analysis for pharmaceuticals by the advantages of metal oxide nanomaterials**  
BOZAL PALABIYIK B., Erkmén C., KURBANOĞLU S., ÖZKAN S. A., USLU B.  
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- XXVI. **Revisiting pharmaceutical analysis in the light of new technologies-volume ii**  
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- XXVII. **Contemporary Issues on Pharmaceutical Researches (Part II)**  
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- XXIX. **Au-Pt nanoparticles based molecularly imprinted nanosensor for electrochemical detection of the lipopeptide antibiotic drug Daptomycin**  
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- XXX. **Non-enzymatic monitoring of hydrogen peroxide using novel nanosensor based on CoFe<sub>2</sub>O<sub>4</sub>@CdSeQD magnetic nanocomposite and rifampicin mediator**  
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- XXXI. **Fabrication of poly(3,4-ethylenedioxythiophene)-iridium oxide nanocomposite based Tyrosinase biosensor for the dual detection of catechol and azinphos methyl**  
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- XXXII. **Frontiers in electrochemical enzyme based biosensors for food and drug analysis**  
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- XXXIV. **GC-MS Based Metabolic Profiling of Parkinson's Disease with Glutathione S-transferase M1 and T1 Polymorphism in Tunisian Patients**  
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- XXXVII. **Preparation of porous Cu metal organic framework/ZnTe nanorods/Au nanoparticles hybrid platform for nonenzymatic determination of catechol**  
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- XL. **The role of electrochemical immunosensors in clinical analysis**  
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- XLI. **Modern Assay Techniques for Cancer Drugs: Electroanalytical and Liquid Chromatography Methods**  
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- XLII. **Development and in vitro/in vivo evaluation of dihydroergotamine mesylate loaded maltodextrin-pullulan sublingual films**  
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- XLIII. **NH<sub>2</sub>-Functionalized Multi Walled Carbon Nanotubes Decorated with ZnO Nanoparticles and Graphene Quantum Dots for Sensitive Assay of Pimozide**  
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- XLIV. **Carbon quantum dots co-catalyzed with multiwalled carbon nanotubes and silver nanoparticles modified nanosensor for the electrochemical assay of anti-HIV drug Rilpivirine**  
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- XLV. **Nanomaterials-Based Nanosensors for the Simultaneous Electrochemical Determination of Biologically Important Compounds: Ascorbic Acid, Uric Acid, and Dopamine**  
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- XLVI. **A novel electrochemical nanosensor based on NH<sub>2</sub>-functionalized multi walled carbon nanotubes for the determination of catechol-orto-methyltransferase inhibitor entacapone**  
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- XLVII. **Editorial: "Current analytical techniques and applications in pharmaceutical analysis - volume I"**  
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- XLVIII. **Nanomaterials for Drug Delivery Systems**  
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- XLIX. **Electrochemical analysis of antipsychotics**  
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- L. **Photoelectrochemical Nanosensors**  
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- LI. **The Effect of Nanomaterials on the Drug Analysis Performance of Nanosensors**

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- LII. **Molecularly Imprinted Polymer-Based Nanosensors for Pharmaceutical Analysis**  
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- LIII. **Chemical Nanosensors in Pharmaceutical Analysis**  
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- LIV. **Current analytical techniques and applications in pharmaceutical analysis-volume ii**  
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- LV. **Electrochemical determination of non-steroidal anti-inflammatory drugs**  
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- LVI. **Development and Validation of RP-LC Method for the Simultaneous Determination of Simvastatin and Ezetimibe in Fixed-Dose Combination Tablets and in Rabbit Serum**  
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- LVII. **Introduction to Nanosensors**  
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- LVIII. **Recent advances on drug analyses using ultra performance liquid chromatographic techniques and their application to the biological samples**  
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- LIX. **Recent developments on electrochemical flow injection in pharmaceuticals and biologically important compounds**  
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- LX. **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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- LXI. **Amperometric Flow Injection Analysis of Glucose and Galactose Based on Engineered Pyranose 2-Oxidases and Osmium Polymers for Biosensor Applications**  
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- LXII. **Nanomedicine: An effective tool in cancer therapy**  
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- LXIII. **A Novel Enzymatic Biosensor for the Detection of Catechol Using Multi-walled Carbon Nanotubes and Gold Nanowires**  
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- LXIV. **Validation of Analytical Methods for the Assessment of Hazards in Food**  
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- LXV. **Electrochemical carbon based nanosensors: A promising tool in pharmaceutical and biomedical analysis**  
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- LXVI. **A novel core-shell-based chromatographic method supported by ratio derivative spectrophotometry for the simultaneous determination of perindopril, indapamide, and amlodipine ternary mixtures**  
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- LXVII. **Electrochemical MIP-Sensors for Drugs**  
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- LXVIII. **Development of assay for determination of eletriptan hydrobromide in loaded PLGA nanoparticles**  
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- LXIX. **DIFFERENTIAL PULSE VOLTAMMETRIC DETERMINATION OF ROSUVASTATIN VIA GLASSY CARBON ELECTRODE**  
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- LXXI. **Nanomaterials-based enzyme electrochemical biosensors operating through inhibition for biosensing applications**  
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- XXI. **Voltammetric determination of anti-HIV drug rilpivirine using glassy carbon electrode modified with carbon quantum dots cocatalyzed with multiwalled carbon nanotubes and silver nanoparticles**  
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- XXII. **Highly sensitive carbon based nanohybrid sensor platform for determination of 5-hydroxytryptamine receptor agonist (Eletriptan)**  
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- XXIII. **Immobilization Platforms for Tyrosinase Based Electrochemical Biosensors and Their Applications**

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- XXIV. **Non-Enzymatic Electrochemical Catechol Detection Using A Novel Nanosensor**  
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- XXVI. **Electrochemical Determination of Catechol-Orto-Methyltransferase Inhibitor using NH<sub>2</sub>-Functionalized Multi Walled Carbon Nanotubes based nanosensor**  
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- XXVIII. **A novel molecularly imprinted electrochemical sensor based on PtNPs-AuNPs surface for the rapid determination of lipopeptide antibiotic daptomycin**  
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- XXIX. **Electrochemical investigation of DNA-anticancer drug interaction using SPE/AuNPs/AgNPs/AuNPs/CT-dsDNA nanobiosensor**  
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- XXX. **Electrochemical investigation of anticancer drug Gemcitabine with calf thymus DNA**  
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- XXXI. **Electrochemical Investigation of Entacapone Using NH<sub>2</sub> Functionalized Multiwalled Carbon Nanotubes Modified Nanosensor**  
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- XXXIII. **Molecularly imprinted polymer based nanosensor on AuPt surface for the selective and sensitive electrochemical assay of antimicrobial Daptomycin**  
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- XXXVI. **Electrochemical Nanosensor For The Electrochemical Interaction Of Idarubicin With Dna**  
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- XXXVII. **EFFECT OF POLYMER TYPE AND CONCENTRATION ON CHARACTERISTICS OF DIHYDROERGOTAMINE**

## MESYLATE SUBLING FILMS

KÖSE ÖZKAN C., EŞİM Ö., KURBANOĞLU S., SAVAŞER A., TAŞ Ç., ARSLAN A., ÖZKAN S. A., ÖZKAN Y.

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### XXXVIII. **Electrochemical Investigation Of Eletriptan Using Go/Pt/Ir Based Nanosensor**

Kaya S. I., Demirkan B., KURBANOĞLU S., Aygun A., ŞEN F., ÖZKAN S. A.

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### XXXIX. **Comparison Between Liquid Chromatography And Ratio Derivative Spectrophotometry For The Simultaneous Determination of Perindopril, Indapamide, and Amlodipine Ternary Mixtures**

KARADURMUŞ L., GÜMÜŞTAŞ M., KURBANOĞLU S., ÖZKAN S. A., USLU B.

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### XL. **Gold Nanoparticles Modified Screen Printed Electrode For Sensitive Detection/Enhanced Sensing Of Anticancer Drug Irinotecan-DNA Interaction**

Shahzad S., KURBANOĞLU S., KARADURMUŞ L., Shah A., ÖZKAN S. A.

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### XLI. **A novel DNA nanobiosensor based on graphene oxide decorated with gold nanoparticles for the detection of DNA interaction with anticancer drug**

Shahzad S., KURBANOĞLU S., KARADURMUŞ L., Shah A., ÖZKAN S. A.

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### XLII. **Electrochemical Mip Sensor For Detection Of Butyrylcholine Esterase**

ÖZÇELİKAY AKYILDIZ G., Yarman A., KURBANOĞLU S., ÖZKAN S. A., Wollenberger U., Scheller F.

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### XLIII. **Electrochemical MIP Sensor For Detection of Butyrylcholine esterase**

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### XLIV. **Development and validation of HPLC method for simultaneous determination of betamethasone dipropionate and ketoconazole in cream formulations**

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### XLV. **Molecularly Imprinted Electrochemical Sensor For The Determination of Lipopeptide Antibiotic Drug Daptomycin**

ÖZÇELİKAY G., KURBANOĞLU S., YARMAN A., Scheller F. W., ÖZKAN S. A.

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### XLVI. **Electrochemical DNA Biosensor for The Interaction of Doxorubicin with DNA**

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### XLVII. **Molecularly Imprinted Electrochemical Sensor for determination of lipopeptide antibiotic drug Daptomycin**

ÖZKAN S. A., KURBANOĞLU S., ÖZÇELİKAY G., YARMAN A., Scheller F. W.

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### XLVIII. **DESIGN OF A NANOSENSOR FOR THE ANALYSIS OF ANTI CANCER DRUG**

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### XLIX. **First MIP for the recognition of BUTYRYLCHOLINE ESTERASE**

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### L. **LC METHOD DEVELOPMENT FOR DETERMINATION OF OBIDOXIME FROM PARENTERAL PRODUCTS AND STABILITY OF OBIDOXIME AT DIFFERENT PHs**

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### LI. **ELETRIPTAN HYDROBROMIDE-PLGA NANOPARTICLES: EFFECT OF FORMULATION VARIABLES ON SIZE DISTRIBUTION**

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- LII. **Electrochemical nanobiosensor for the detection of catechol**  
KURBANOĞLU S., ÖZKAN S. A.  
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- LIII. **ELECTROCHEMICAL ANALYSIS OF ANTICANCER DAUNORUBICIN USING MULTIWALLED CARBON NANOTUBE MODIFIED EDGE PLANE CARBON ELECTRODE**  
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- LIV. **Determination of Indomethacin in Ethyl Cellulose Nanoparticles by High Performance Liquid Chromatography**  
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- LV. **Tyrosinase Immobilization In Multi Walled Carbon Nanotube And Gold Nanowires Matrice For Catechol Detection**  
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- LVI. **Nanoparticle Effect on Interaction of Epirubicin with DNA**  
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- LVII. **MWCNT/CdS quantum dot modified glassy carbon electrode for the determination of Clopidogrel bisulfate in tablet dosage form and serum samples**  
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- LVIII. **Simultaneous Determination of Perindopril, Indapamide and Amlodipine in Pharmaceutical Dosage form by HPLC**  
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- LIX. **Determination of anti-migraine drug from loaded polymeric nanoparticles via high performance liquid chromatography**  
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- LX. **Simultaneous Determination of Perindopril, Indapamide and Amlodipine Ternary Mixtures Using Ratio Derivative Spectrophotometric Method**  
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- LXI. **LC-MS METHOD DEVELOPMENT FOR DETERMINATION OF DIHYDROERGOTAMINE FROM PHARMACEUTICAL FILM PREPARATIONS AND RABBIT PLASMA SAMPLES FOR DRUG DELIVERY APPLICATIONS**  
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- LXII. **Electrochemical Nanobiosensor for the Tyrosinase Inhibition via phosphodiesterase type 5 inhibitor: Sildenafil**  
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- LXIII. **Adsorptive stripping determination of Ezetimibe in pharmaceutical dosage forms and biological fluids**  
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- LXIV. **Catechol determination using a novel electrochemical nanobiosensor**  
KURBANOĞLU S., Rivas L., ÖZKAN S. A., Merkoçi A.



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- LXV. **Electrochemical Determination Of Rosuvastatine And Ezetimibe From Human Serum And Urine**  
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- LXVI. **Electrochemical Glucose Biosensing via New Generation Conducting Polymers Gold Nanoparticles Glucose Oxidase Modified Electrodes**  
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- LXVII. **Diffusion Adsorption and Electrode Kinetics of Electro Oxidations on a Stationary Solid Electrode**  
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- LXVIII. **Electrochemical Determination of Rosuvastatin**  
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- LXX. **ELECTROCHEMICAL DETERMINATION OF ROSUVASTATIN AND EZETIMIBE FROM HUMAN SERUM AND URINE**  
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- LXXI. **A dual electrochemical nanobiosensor for the inhibition based detection of captopril and catechol**  
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- LXXII. **DETERMINATION OF DIHYDROERGOTAMINE VIA LC METHOD COUPLED WITH FLUORESCENCE DETECTION IN PHARMACEUTICAL FILM PREPARATIONS**  
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- LXXIII. **İletken polimer bazlı amperometrik glikoz biyosensörü geliştirilmesi**  
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- LXXIV. **Anti-Lipidemic Rosuvastatin'in Elektrokimyasal Tayini**  
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- LXXV. **Anti-lipemik rosuvastatin 'in elektrokimyasal tayini**  
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- LXXVI. **Nanomaterials based biosensors operating through inhibition inducing biochemical reactions for drug analysis safety and security applications**  
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- LXXVII. **Electrochemically reduced graphene and iridium oxide nanoparticles for inhibition based angiotensin converting enzyme inhibitor detection and determination**  
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- LXXVIII. **Antihipertansif Enalapril, Lerkanidipin, Nitrendipin in TF-SK ile Es Zamanlı Tayin Yöntemleri ve Validasyonu**  
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- LXXIX. **A novel RP LC method for the simultaneous determination of two combined tablet form of amlodipine**

- OZKAN C. K., KURBANOĞLU S., EŞİM Ö., SAVAŞER A., ÖZKAN S. A., ÖZKAN Y.  
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- LXXX. **A NOVEL RP LC METHOD FOR THE SIMULTANEOUS DETERMINATION OF ROSUVASTATIN AND EZETIMIBE FROM RABBIT PLASMA AND PHARMACEUTICAL DOSAGE FORM**  
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- LXXXI. **Development of RP LC Method For The Simultaneous Determination Of Simvastatin And Ezetimibe From Rabbit Plasma Pharmaceutical Dosage Form And Drug Dissolution Studies**  
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- LXXXII. **UV Visible Spectrophotometric Study of the Interaction of Aripiprazole with dsDNA**  
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- LXXXIII. **Detection of Damaged DNA Antidepressant Drug Interaction Through Electrochemical DNA Biosensor**  
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- LXXXIV. **Design of a Lab on a chip system for the detection of Antithyroid drug using an enzyme cascade blocking in a nanoparticle based**  
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- LXXXVIII. **DESIGN OF AN ELECTROCHEMICAL NANOBIOSENSOR FOR THE DETERMINATION OF CATECHOL**  
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- LXXXIX. **SIMULTANEOUS DETERMINATION OF ATORVASTATIN AND AMLODIPINE IN PHARMACEUTICALS AND APPLICATION ON DRUG DISSOLUTION STUDIES FOR KINETIC 100 PARAMETERS**  
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- XC. **Antihypertensive Enalapril, Lerkanidipin, Nitrendipin'xin TF-SK ile eş zamanlı Tayin Yöntemleri ve Validasyonu**  
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- XCII. **Sensitive and validated bio-analytical assay of metoclopramide by LC-MS and application to rabbit blood samples**  
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- XCIV. Electrochemical interaction of antidepressant drug aripiprazole with DNA and DNA damage induced by UV C radiation and chemical agents**  
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- XCVI. LC-MS Method for the sensitive determination of Metoclopramide: Application to rabbit plasma, gel formulations and pharmaceuticals**  
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- XCVII. Iridyum Oksit ve Tirozinaz Enzimi ile Fonksiyonlandırılmış Manyetik Nanopartikül Bazlı Elektrokimyasal Nanobiyosensör Tasarımı**  
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- C. Electrochemical mechanism and sensitive assay of antiretroviral drug Abacavir in biological sample using multiwalled carbon nanotube modified pyrolytic graphite electrode**  
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