

# **Doç. Dr. SEVİNÇ KURBANOĞLU**

## **Kişisel Bilgiler**

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## **Uluslararası Araştırmacı ID'leri**

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Publons / Web Of Science ResearcherID: AAG-5743-2021

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, 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**

Uluslararası Tanıtım ve Marka Koordinatörü, Ankara Üniversitesi, Rektörlük, Uluslararası Tanıtım ve Marka

## Verdiği Dersler

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  
Laboratory Safety, Lisans, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Adli Kimya (Teorik), Yüksek Lisans, 2017 - 2018, 2016 - 2017  
Analitik Hesaplamalar, Ön Lisans, 2017 - 2018  
Adli Kimya (Pratik), Yüksek Lisans, 2017 - 2018, 2016 - 2017

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

- I. **Enhancing electrochemical sensing through the use of functionalized graphene composites as nanozymes**  
Dinu L. A., Kurbanoglu S.  
NANOSCALE, cilt.15, sa.41, ss.16514-16538, 2023 (SCI-Expanded)
- II. **Decoration of Bi<sub>2</sub>O<sub>3</sub>NPs-AgNPs-ErGO as a first electrochemical nanosensor for sensitive determination of nelarabine in pharmaceutical dosage form and human serum samples**  
Zahirul Kabir M., Erkmen C., Kurbanoglu S., Aydogdu Tiğ G., Uslu B.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, cilt.944, 2023 (SCI-Expanded)
- III. **Novel Approaches to Enzyme-Based Electrochemical Nanobiosensors**  
Kilic N. M., Singh S., Keles G., Cinti S., KURBANOĞLU S., ODACI DEMİRKOL D.  
BIOSENSORS-BASEL, cilt.13, sa.6, 2023 (SCI-Expanded)
- IV. **Characterization of Climbazole-Bovine serum albumin interaction by experimental and in silico approaches**  
Kabir M. Z., Tayyab H., Erkmen C., KURBANOĞLU S., Mohamad S. B., USLU B.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, cilt.288, 2023 (SCI-Expanded)
- V. **Elucidating the interaction of antidepressant drug paroxetine with ct-dsDNA: A comparative study by electrochemical, spectroscopic, and molecular docking approaches**  
Nimal R., Unal D. N., Erkmen C., KURBANOĞLU S., Siddiq M., EREN G., Shah A., USLU B.  
BIOELECTROCHEMISTRY, cilt.149, 2023 (SCI-Expanded)
- VI. **Recent Trends in Pharmaceuticals and Natural Products Research - Part I**  
DOĞAN A., KURBANOĞLU S., Erdem S. A.  
Combinatorial Chemistry and High Throughput Screening, cilt.26, sa.15, ss.2575-2576, 2023 (SCI-Expanded)
- VII. **Electrodeposited copper nanocubes on multi-layer graphene: A novel nanozyme for ultrasensitive dopamine detection from biological samples**  
Dinu L. A., KURBANOĞLU S., Romanitan C., Pruneanu S., Serban A. B., Stoian M. C., Pachiu C., Craciun G.  
APPLIED SURFACE SCIENCE, cilt.604, 2022 (SCI-Expanded)
- VIII. **Electrochemical biosensor based on three components random conjugated polymer with fullerene (C<sub>60</sub>)**  
KURBANOĞLU S., Cevher S. C., TOPPARE L. K., ÇIRPAN A., SÖYLEMEZ S.  
BIOELECTROCHEMISTRY, cilt.147, 2022 (SCI-Expanded)
- IX. **Understanding electrooxidation mechanism of anticancer drugs utilizing ultrafast pump probe spectroscopy**

- KARATAY A., KURBANOĞLU S., Sevinc G., YILDIZ E., HAYVALI M., ÖZKAN S. A., ELMALI A.  
Journal of Molecular Structure, cilt.1262, 2022 (SCI-Expanded)
- X. Trends in electrochemical nanosensors for the analysis of antioxidants  
Nimal R., Selcuk O., KURBANOĞLU S., Shah A., Siddiq M., USLU B.  
TrAC - Trends in Analytical Chemistry, cilt.153, 2022 (SCI-Expanded)
- XI. Evaluation of the Interaction of Cinacalcet with Calf Thymus dsDNA: Use of Electrochemical, Spectrofluorimetric and Molecular Docking Methods  
Erkmen C., Unal D. N., KURBANOĞLU S., EREN G., USLU B.  
Biosensors, cilt.12, sa.5, 2022 (SCI-Expanded)
- XII. Phosphodiesterase-3 Enzyme Inhibitor Drug Milrinone Interaction with DNA and HSA: Electrochemical, Spectroscopic and Molecular Docking  
Unal D. N., Erkmen C., Selcuk O., KURBANOĞLU S., EREN G., USLU B.  
Journal of the Electrochemical Society, cilt.169, sa.2, 2022 (SCI-Expanded)
- XIII. The interaction between dna and three intercalating anthracyclines using electrochemical dna nanobiosensor based on metal nanoparticles modified screen-printed electrode  
KARADURMUŞ L., DOĞAN TOPAL B., KURBANOĞLU S., Shah A., ÖZKAN S. A.  
Micromachines, cilt.12, sa.11, 2021 (SCI-Expanded)
- XIV. Current trends and roles of surfactants for chromatographic and electrochemical sensing  
Unal D. N., YILDIRIM S., KURBANOĞLU S., USLU B.  
TRAC-TRENDS IN ANALYTICAL CHEMISTRY, cilt.144, 2021 (SCI-Expanded)
- XV. Multi-Purpose electrochemical tyrosinase nanobiosensor based on poly (3,4 ethylenedioxythiophene) nanoparticles decorated graphene quantum dots: Applications to hormone drugs analyses and inhibition studies  
Erkmen C., Demir Y., KURBANOĞLU S., USLU B.  
SENSORS AND ACTUATORS B-CHEMICAL, cilt.343, 2021 (SCI-Expanded)
- XVI. Electrochemical catechol biosensor based on beta-cyclodextrin capped gold nanoparticles and inhibition effect of ibuprofen  
Kapan B., KURBANOĞLU S., NALBANT ESENTÜRK E., SÖYLEMEZ S., TOPPARE L. K.  
PROCESS BIOCHEMISTRY, cilt.108, ss.80-89, 2021 (SCI-Expanded)
- XVII. Graphene-Gold Nanoparticles Nanozyme-Based Electrochemical Sensor with Enhanced Laccase-Like Activity for Determination of Phenolic Substrates  
Gugoasa L. A. D., Pogacean F., KURBANOĞLU S., Tudoran L., Serban A. B., Kacso I., Pruneanu S.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, cilt.168, sa.6, 2021 (SCI-Expanded)
- XVIII. Latest trends for biogenic amines detection in foods: Enzymatic biosensors and nanozymes applications  
Ahangari H., KURBANOĞLU S., Ehsani A., USLU B.  
TRENDS IN FOOD SCIENCE & TECHNOLOGY, cilt.112, ss.75-87, 2021 (SCI-Expanded)
- XIX. Simple and robust: The claims of protein sensing by molecularly imprinted polymers  
Yarman A., KURBANOĞLU S., Zebger I., Scheller F. W.  
SENSORS AND ACTUATORS B-CHEMICAL, cilt.330, 2021 (SCI-Expanded)
- XX. Contemporary Issues on Pharmaceutical Researches (Part II)  
Erkmen C., USLU B., KURBANOĞLU S.  
COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING, cilt.24, sa.3, ss.327, 2021 (SCI-Expanded)
- XXI. Revisiting pharmaceutical analysis in the light of new technologies-volume ii  
USLU B., ÖZKAN S. A., KURBANOĞLU S., BOZAL PALABIYIK B.  
Current Analytical Chemistry, cilt.17, sa.9, ss.1213-1214, 2021 (SCI-Expanded)
- XXII. Electrochemical analysis for pharmaceuticals by the advantages of metal oxide nanomaterials  
BOZAL PALABIYIK B., Erkmen C., KURBANOĞLU S., ÖZKAN S. A., USLU B.  
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- XXIII. Revisiting pharmaceutical analysis in the light of new technologies-volume i  
USLU B., KURBANOĞLU S., Ozkan S. A., BOZAL PALABIYIK B.

- Current Analytical Chemistry, cilt.17, sa.8, ss.1062-1063, 2021 (SCI-Expanded)
- XXIV. **Carbon-based ruthenium nanomaterial-based electroanalytical sensors for the detection of anticancer drug Idarubicin**  
Kaya S. I., KURBANOĞLU S., Yavuz E., Mustafov S. D., ŞEN F., Ozkan S. A.  
Scientific Reports, cilt.10, sa.1, 2020 (SCI-Expanded)
- XXV. **Au-Pt nanoparticles based molecularly imprinted nanosensor for electrochemical detection of the lipopeptide antibiotic drug Daptomycin**  
ÖZÇELİKAY G., KURBANOĞLU S., Yarman A., Scheller F. W., Ozkan S. A.  
Sensors and Actuators, B: Chemical, cilt.320, 2020 (SCI-Expanded)
- XXVI. **Non-enzymatic monitoring of hydrogen peroxide using novel nanosensor based on CoFe2O4@CdSeQD magnetic nanocomposite and rifampicin mediator**  
Mollarasouli F., KURBANOĞLU S., Asadpour-Zeynali K., Ozkan S. A.  
Analytical and Bioanalytical Chemistry, cilt.412, sa.21, ss.5053-5065, 2020 (SCI-Expanded)
- XXVII. **Fabrication of poly(3,4-ethylenedioxothiophene)-iridium oxide nanocomposite based Tyrosinase biosensor for the dual detection of catechol and azinphos methyl**  
Erkmen C., KURBANOĞLU S., USLU B.  
SENSORS AND ACTUATORS B-CHEMICAL, cilt.316, 2020 (SCI-Expanded)
- XXVIII. **Frontiers in electrochemical enzyme based biosensors for food and drug analysis**  
KURBANOĞLU S., Erkmen C., USLU B.  
TRAC-TRENDS IN ANALYTICAL CHEMISTRY, cilt.124, 2020 (SCI-Expanded)
- XXIX. **Contemporary Issues on Pharmaceutical Researches**  
Erkmen C., USLU B., KURBANOĞLU S.  
COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING, cilt.23, sa.10, ss.990, 2020 (SCI-Expanded)
- XXX. **Chemically modified electrodes in electrochemical drug analysis**  
Kaya S. I., Karabulut T. C., KURBANOĞLU S., Ozkan S. A.  
Current Pharmaceutical Analysis, cilt.16, sa.6, ss.641-660, 2020 (SCI-Expanded)
- XXXI. **GC-MS Based Metabolic Profiling of Parkinson's Disease with Glutathione S-transferase M1 and T1 Polymorphism in Tunisian Patients**  
Rebai A., REÇBER T., NEMUTLU E., Chbili C., KURBANOĞLU S., KIR S., Amor S. B., ÖZKAN S. A., Saguem S.  
COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING, cilt.23, sa.10, ss.1041-1048, 2020 (SCI-Expanded)
- XXXII. **Preparation of porous Cu metal organic framework/ZnTe nanorods/Au nanoparticles hybrid platform for nonenzymatic determination of catechol**  
Mollarasouli F., KURBANOĞLU S., Asadpour-Zeynali K., Ozkan S. A.  
Journal of Electroanalytical Chemistry, cilt.856, 2020 (SCI-Expanded)
- XXXIII. **Analysis of diterpenes and diterpenoids**  
Eksi G., KURBANOĞLU S., ASLAN ERDEM S.  
RECENT ADVANCES IN NATURAL PRODUCTS ANALYSIS, ss.313-345, 2020 (SCI-Expanded)
- XXXIV. **Electrochemical MIP sensor for butyrylcholinesterase**  
ÖZÇELİKAY G., KURBANOĞLU S., Zhang X., SÖZ Ç., Wollenberger U., Ozkan S. A., Yarman A., Scheller F. W.  
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- XXXV. **Highly sensitive carbon-based nanohybrid sensor platform for determination of 5-hydroxytryptamine receptor agonist (Eletriptan)**  
Kaya S. I., Demirkan B., Bakirhan N. K., Kuyuldar E., KURBANOĞLU S., Ozkan S. A., Sen F.  
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- XXXVI. **The role of electrochemical immunosensors in clinical analysis**  
Mollarasouli F., KURBANOĞLU S., Ozkan S. A.  
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- XXXVII. **Modern Assay Techniques for Cancer Drugs: Electroanalytical and Liquid Chromatography Methods**  
KURBANOĞLU S., BAKIRHAN N. K., GÜMÜŞTAŞ M., Ozkan S. A.  
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- XXXVIII. **Development and in vitro/in vivo evaluation of dihydroergotamine mesylate loaded maltodextrin-pullulan sublingual films**  
Esim O., Ozkan C. K., KURBANOĞLU S., Arslan A., TAŞ Ç., Savaser A., Ozkan S. A., Ozkan Y.  
Drug Development and Industrial Pharmacy, cilt.45, sa.6, ss.914-921, 2019 (SCI-Expanded)
- XXXIX. **NH<sub>2</sub>-Functionalized Multi Walled Carbon Nanotubes Decorated with ZnO Nanoparticles and Graphene Quantum Dots for Sensitive Assay of Pimozide**  
Aftab S., KURBANOĞLU S., ÖZÇELİKAY G., Shah A., Ozkan S. A.  
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- XL. **Carbon quantum dots co-catalyzed with multiwalled carbon nanotubes and silver nanoparticles modified nanosensor for the electrochemical assay of anti-HIV drug Rilpivirine**  
Aftab S., KURBANOĞLU S., ÖZÇELİKAY G., BAKIRHAN N. K., Shah A., ÖZKAN S. A.  
SENSORS AND ACTUATORS B-CHEMICAL, cilt.285, ss.571-583, 2019 (SCI-Expanded)
- XLI. **Nanomaterials-Based Nanosensors for the Simultaneous Electrochemical Determination of Biologically Important Compounds: Ascorbic Acid, Uric Acid, and Dopamine**  
Kaya S. I., KURBANOĞLU S., Ozkan S. A.  
Critical Reviews in Analytical Chemistry, cilt.49, sa.2, ss.101-125, 2019 (SCI-Expanded)
- XLII. **A novel electrochemical nanosensor based on NH<sub>2</sub>-functionalized multi walled carbon nanotubes for the determination of catechol-ortho-methyltransferase inhibitor entacapone**  
Aftab S., ÖZÇELİKAY G., KURBANOĞLU S., Shah A., Iftikhar F. J., ÖZKAN S. A.  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, cilt.165, ss.73-81, 2019 (SCI-Expanded)
- XLIII. **Introduction to Nanosensors**  
Iftikhar F. J., Shah A., Akhter M. S., KURBANOĞLU S., Ozkan S. A.  
NEW DEVELOPMENTS IN NANOSENSORS FOR PHARMACEUTICAL ANALYSIS, ss.1-46, 2019 (SCI-Expanded)
- XLIV. **Recent advances on drug analyses using ultra performance liquid chromatographic techniques and their application to the biological samples**  
KURBANOĞLU S., Karsavurdan O., Ozkan S. A.  
Current Analytical Chemistry, cilt.15, sa.3, ss.277-293, 2019 (SCI-Expanded)
- XLV. **Chemical Nanosensors in Pharmaceutical Analysis**  
KURBANOĞLU S., BAKIRHAN N. K., Shah A., Ozkan S. A.  
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- XLVI. **Nanomaterials for Drug Delivery Systems**  
Esim O., KURBANOĞLU S., Savaser A., Ozkan S. A., Ozkan Y.  
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- XLVII. **Electrochemical determination of non-steroidal anti-inflammatory drugs**  
KARADURMUŞ L., Sahin I. F., KURBANOĞLU S., Ozkan S. A.  
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- XLVIII. **Molecularly Imprinted Polymer-Based Nanosensors for Pharmaceutical Analysis**  
KURBANOĞLU S., Yarman A., Scheller F. W., Ozkan S. A.  
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- XLIX. **The Effect of Nanomaterials on the Drug Analysis Performance of Nanosensors**  
Kokab T., Munir A., Shah A., KURBANOĞLU S., Zia M. A., Ozkan S. A.  
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- L. **Current analytical techniques and applications in pharmaceutical analysis-volume ii**  
KURBANOĞLU S., Ozkan S. A.  
Current Analytical Chemistry, cilt.15, sa.4, ss.322-323, 2019 (SCI-Expanded)
- LI. **Photoelectrochemical Nanosensors**  
Sultan S., Nimal R., KURBANOĞLU S., Shah A., Ozkan S. A.  
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- LII. **Editorial: "Current analytical techniques and applications in pharmaceutical analysis - volume I"**  
KURBANOĞLU S., Ozkan S. A.  
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- LIII. **Electrochemical analysis of antipsychotics**  
KARADURMUŞ L., Kir D., KURBANOĞLU S., Ozkan S. A.  
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- LIV. **Development and Validation of RP-LC Method for the Simultaneous Determination of Simvastatin and Ezetimibe in Fixed-Dose Combination Tablets and in Rabbit Serum**  
KURBANOĞLU S., Esim O., Ozkan C. K., Savaser A., Ozkan Y., ÖZKAN S. A.  
CHROMATOGRAPHIA, cilt.82, sa.1, ss.279-285, 2019 (SCI-Expanded)
- LV. **Recent developments on electrochemical flow injection in pharmaceuticals and biologically important compounds**  
KURBANOĞLU S., ÜNAL M. A., ÖZKAN S. A.  
ELECTROCHIMICA ACTA, cilt.287, ss.135-148, 2018 (SCI-Expanded)
- LVI. **MWCNT/CdSe quantum dot modified glassy carbon electrode for the determination of clopidogrel bisulfate in tablet dosage form and serum samples**  
ÖZÇELİKAY G., KURBANOĞLU S., BOZAL PALABIYIK B., USLU B., ÖZKAN S. A.  
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- LVII. **Amperometric Flow Injection Analysis of Glucose and Galactose Based on Engineered Pyranose 2-Oxidases and Osmium Polymers for Biosensor Applications**  
KURBANOĞLU S., Zafar M. N., Tasca F., Aslam I., Spadiut O., Leech D., Haltrich D., Gorton L.  
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- LVIII. **Nanomedicine: An effective tool in cancer therapy**  
Aftab S., Shah A., Nadhman A., KURBANOĞLU S., ÖZKAN S. A., Dionysiou D. D., Shukla S. S., Aminabhavi T. M.  
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- LIX. **A Novel Enzymatic Biosensor for the Detection of Catechol Using Multi-walled Carbon Nanotubes and Gold Nanowires**  
KURBANOĞLU S., ÖZKAN S. A.  
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- LX. **Electrochemical MIP-Sensors for Drugs**  
YARMAN A., KURBANOĞLU S., Jetzschmann K. J., ÖZKAN S. A., Wollenberger U., Scheller F. W.  
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- LXI. **A novel core-shell-based chromatographic method supported by ratio derivative spectrophotometry for the simultaneous determination of perindopril, indapamide, and amlodipine ternary mixtures**  
KARADURMUŞ L., GÜMÜŞTAŞ M., KURBANOĞLU S., USLU B., ÖZKAN S. A.  
TURKISH JOURNAL OF CHEMISTRY, cilt.42, sa.5, ss.1408-1419, 2018 (SCI-Expanded)
- LXII. **Validation of Analytical Methods for the Assessment of Hazards in Food**  
KURBANOĞLU S., USLU B., ÖZKAN S. A.  
FOOD SAFETY AND PRESERVATION: MODERN BIOLOGICAL APPROACHES TO IMPROVING CONSUMER HEALTH, ss.59-90, 2018 (SCI-Expanded)
- LXIII. **Electrochemical carbon based nanosensors: A promising tool in pharmaceutical and biomedical analysis**  
KURBANOĞLU S., ÖZKAN S. A.  
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- LXIV. **Development of assay for determination of eletriptan hydrobromide in loaded PLGA nanoparticles**  
Esim O., Savaser A., KURBANOĞLU S., Ozkan C. K., ÖZKAN S. A., Ozkan Y.  
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- LXV. **DETERMINATION OF DIHYDROERGOTAMINE VIA LC METHOD COUPLED WITH FLUORESCENCE DETECTION IN PHARMACEUTICAL FILM PREPARATIONS**  
KURBANOĞLU S., Esim O., Ozkan C. K., Savaser A., Ozkan Y., ÖZKAN S. A.  
REVUE ROUMAINE DE CHIMIE, cilt.62, sa.6-7, ss.517-523, 2017 (SCI-Expanded)
- LXVI. **DIFFERENTIAL PULSE VOLTAMMETRIC DETERMINATION OF ROSUVASTATIN VIA GLASSY CARBON ELECTRODE**  
KARADURMUŞ L., KURBANOĞLU S., USLU B., ÖZKAN S. A.

- REVUE ROUMAINE DE CHIMIE, cilt.62, sa.6-7, ss.579-586, 2017 (SCI-Expanded)
- LXVII. **Nanomaterials-based enzyme electrochemical biosensors operating through inhibition for biosensing applications**  
KURBANOĞLU S., ÖZKAN S. A., Merkoci A.  
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- LXVIII. **Electrochemically reduced graphene and iridium oxide nanoparticles for inhibition-based angiotensin-converting enzyme inhibitor detection**  
KURBANOĞLU S., Rivas L., ÖZKAN S. A., Merkoci A.  
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- LXIX. **Electrochemical DNA Biosensors in Drug Analysis**  
KARADURMUŞ L., KURBANOĞLU S., USLU B., ÖZKAN S. A.  
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- LXX. **CARBON-BASED NANOSTRUCTURES FOR ELECTROCHEMICAL ANALYSIS OF ORAL MEDICINES**  
KURBANOĞLU S., USLU B., ÖZKAN S. A.  
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- LXXI. **Diffusion, Adsorption and Electrode Kinetics of Electro-oxidatons on a Stationary Solid Electrode**  
BOZAL PALABIYIK B., KURBANOĞLU S., USLU B., ÖZKAN S. A., Zuman P.  
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- LXXII. **Simultaneous Determination and Drug Dissolution Testing of Combined Amlodipine Tablet Formulations Using RP-LC**  
Ozkan C. K., KURBANOĞLU S., Esim O., Savaser A., ÖZKAN S. A., Ozkan Y.  
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- LXV. **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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## Metrikler

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