

## Assoc. Prof. SEVİNÇ KURBANOĞLU

### Personal Information

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### International Researcher IDs

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

ScopusID: 55391563600

Yoksis Researcher ID: 121907

### Education Information

Doctorate, Ankara University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (Dr), Turkey 2011 - 2016

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Kimya (YI) (Tezli), Turkey 2008 - 2010

Undergraduate, Middle East Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 2003 - 2008

### Foreign Languages

English, C1 Advanced

### Dissertations

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

Postgraduate, Amperometric microbial and enzymatic biosensors based on conducting polymers, Middle East Technical University, Genel Biyoloji Anabilim Dalı, Kimya (YI) (Tezli), 2010

### Research Areas

Pharmacology and Therapeutics, Basic Pharmaceutics Sciences, Analytical Chemistry, Biosensor, Chemistry, Analytical Chemistry, Electromagnetic Methods

### Academic Titles / Tasks

Associate Professor, Ankara University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2021 - Continues

Research Assistant, Ankara University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2011 - 2021

## Academic and Administrative Experience

Uluslararası Tanıtım ve Marka Koordinatörü, Ankara University, Rektörlük, Uluslararası Tanıtım ve Marka Koordinatörlüğü, 2023 - Continues

## Courses

Laboratory Safety, Undergraduate, 2023 - 2024

Analytical Chemistry, Undergraduate, 2022 - 2023

Electroanalytical Chemistry, Postgraduate, 2022 - 2023

Separation Techniques, Postgraduate, 2022 - 2023

Analitik Validasyon , Undergraduate, 2022 - 2023

Laboratuvar Güvenliği, Undergraduate, 2018 - 2019, 2017 - 2018

Laboratory Safety, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

Adli Kimya (Teorik), Postgraduate, 2017 - 2018, 2016 - 2017

Analitik Hesaplamalar, Associate Degree, 2017 - 2018

Adli Kimya (Pratik), Postgraduate, 2017 - 2018, 2016 - 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Strep-Tag Imprinted Polymer Platform for Heterogenous Bio(electro)catalysis**  
Yarman A., Waffo A. F. T., Katz S., Bernitzky C., Kovács N., Borrero P., Frielingsdorf S., Supala E., Dragelj J., KURBANOĞLU S., et al.  
Angewandte Chemie - International Edition, vol.63, no.47, 2024 (SCI-Expanded)
- 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**  
Ashrafi A. M., Selcuk O., Mukherjee A., Unal D. N., KURBANOĞLU S., USLU B., Jurica J., Pekarkova J., Richtera L., Adam V.  
BIOSENSORS & BIOELECTRONICS, vol.262, 2024 (SCI-Expanded)
- III. **Nanostructured Metal Oxide-Based Electrochemical Biosensors in Medical Diagnosis**  
Keles G., Sifa Ataman E., Taskin S. B., Polatoglu İ., KURBANOĞLU S.  
Biosensors, vol.14, no.5, 2024 (SCI-Expanded)
- IV. **Electrochemical Investigations and Molecular Docking Analysis to Evaluate the Molnupiravir-Calf Thymus dsDNA Interaction**  
Kucuk I., ÜNAL M. N., Karayel A., KURBANOĞLU S., USLU B.  
Journal of the Electrochemical Society, vol.171, no.5, 2024 (SCI-Expanded)
- V. **Enhancing electrochemical sensing through the use of functionalized graphene composites as nanozymes**  
Dinu L. A., Kurbanoglu S.  
NANOSCALE, vol.15, no.41, pp.16514-16538, 2023 (SCI-Expanded)
- VI. **Decoration of Bi2O3NPs-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 Tığ G., Uslu B.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.944, 2023 (SCI-Expanded)
- VII. **Novel Approaches to Enzyme-Based Electrochemical Nanobiosensors**  
Kilic N. M., Singh S., Keles G., Cinti S., KURBANOĞLU S., ODACI DEMİRKOL D.  
BIOSENSORS-BASEL, vol.13, no.6, 2023 (SCI-Expanded)
- VIII. **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, vol.288, 2023 (SCI-

Expanded)

- IX. **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, vol.149, 2023 (SCI-Expanded)
- X. **Recent Trends in Pharmaceuticals and Natural Products Research - Part I**  
DOĞAN A., KURBANOĞLU S., Erdem S. A.  
Combinatorial Chemistry and High Throughput Screening, vol.26, no.15, pp.2575-2576, 2023 (SCI-Expanded)
- XI. **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, vol.604, 2022 (SCI-Expanded)
- XII. **Electrochemical biosensor based on three components random conjugated polymer with fullerene (C60)**  
KURBANOĞLU S., Cevher S. C., TOPPARE L. K., ÇIRPAN A., SÖYLEMEZ S.  
BIOELECTROCHEMISTRY, vol.147, 2022 (SCI-Expanded)
- XIII. **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, vol.1262, 2022 (SCI-Expanded)
- XIV. **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, vol.153, 2022 (SCI-Expanded)
- XV. **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, vol.12, no.5, 2022 (SCI-Expanded)
- XVI. **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, vol.169, no.2, 2022 (SCI-Expanded)
- XVII. **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, vol.12, no.11, 2021 (SCI-Expanded)
- XVIII. **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, vol.144, 2021 (SCI-Expanded)
- XIX. **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, vol.108, pp.80-89, 2021 (SCI-Expanded)
- 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**  
Erkmen C., Demir Y., KURBANOĞLU S., USLU B.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.343, 2021 (SCI-Expanded)
- XXI. **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, vol.112, pp.75-87, 2021 (SCI-Expanded)

- XXII. **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, vol.168, no.6, 2021 (SCI-Expanded)
- XXIII. **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, vol.330, 2021 (SCI-Expanded)
- XXIV. **Revisiting pharmaceutical analysis in the light of new technologies-volume i**  
USLU B., KURBANOĞLU S., Ozkan S. A., BOZAL PALABIYIK B.  
Current Analytical Chemistry, vol.17, no.8, pp.1062-1063, 2021 (SCI-Expanded)
- XXV. **Electrochemical analysis for pharmaceuticals by the advantages of metal oxide nanomaterials**  
BOZAL PALABIYIK B., Erkmén C., KURBANOĞLU S., ÖZKAN S. A., USLU B.  
Current Analytical Chemistry, vol.17, no.9, pp.1322-1339, 2021 (SCI-Expanded)
- XXVI. **Revisiting pharmaceutical analysis in the light of new technologies-volume ii**  
USLU B., ÖZKAN S. A., KURBANOĞLU S., BOZAL PALABIYIK B.  
Current Analytical Chemistry, vol.17, no.9, pp.1213-1214, 2021 (SCI-Expanded)
- XXVII. **Contemporary Issues on Pharmaceutical Researches (Part II)**  
Erkmén C., USLU B., KURBANOĞLU S.  
COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING, vol.24, no.3, pp.327, 2021 (SCI-Expanded)
- XXVIII. **Carbon-based ruthenium nanomaterial-based electroanalytical sensors for the detection of anticancer drug Idarubicin**  
Kaya S. I., KURBANOĞLU S., Yavuz E., Mustafafov S. D., ŞEN F., Ozkan S. A.  
Scientific Reports, vol.10, no.1, 2020 (SCI-Expanded)
- XXIX. **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, vol.320, 2020 (SCI-Expanded)
- 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**  
Mollarasouli F., KURBANOĞLU S., Asadpour-Zeynali K., Ozkan S. A.  
Analytical and Bioanalytical Chemistry, vol.412, no.21, pp.5053-5065, 2020 (SCI-Expanded)
- XXXI. **Fabrication of poly(3,4-ethylenedioxythiophene)-iridium oxide nanocomposite based Tyrosinase biosensor for the dual detection of catechol and azinphos methyl**  
Erkmén C., KURBANOĞLU S., USLU B.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.316, 2020 (SCI-Expanded)
- XXXII. **Frontiers in electrochemical enzyme based biosensors for food and drug analysis**  
KURBANOĞLU S., Erkmén C., USLU B.  
TRAC-TRENDS IN ANALYTICAL CHEMISTRY, vol.124, 2020 (SCI-Expanded)
- XXXIII. **Analysis of diterpenes and diterpenoids**  
Eksi G., KURBANOĞLU S., ASLAN ERDEM S.  
RECENT ADVANCES IN NATURAL PRODUCTS ANALYSIS, pp.313-345, 2020 (SCI-Expanded)
- XXXIV. **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, vol.23, no.10, pp.1041-1048, 2020 (SCI-Expanded)
- XXXV. **Chemically modified electrodes in electrochemical drug analysis**  
Kaya S. I., Karabulut T. C., KURBANOĞLU S., Ozkan S. A.  
Current Pharmaceutical Analysis, vol.16, no.6, pp.641-660, 2020 (SCI-Expanded)
- XXXVI. **Contemporary Issues on Pharmaceutical Researches**  
Erkmén C., USLU B., KURBANOĞLU S.

- COMBINATORIAL CHEMISTRY & HIGH THROUGHPUT SCREENING, vol.23, no.10, pp.990, 2020 (SCI-Expanded)
- XXXVII. **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, vol.856, 2020 (SCI-Expanded)
- XXXVIII. **Electrochemical MIP sensor for butyrylcholinesterase**  
ÖZÇELİKAY G., KURBANOĞLU S., Zhang X., SÖZ Ç., Wollenberger U., Ozkan S. A., Yarman A., Scheller F. W.  
Polymers, vol.11, no.12, 2019 (SCI-Expanded)
- XXXIX. **Highly sensitive carbon-based nano hybrid 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.  
Journal of Pharmaceutical and Biomedical Analysis, vol.174, pp.206-213, 2019 (SCI-Expanded)
- XL. **The role of electrochemical immunosensors in clinical analysis**  
Mollarasouli F., KURBANOĞLU S., Ozkan S. A.  
Biosensors, vol.9, no.3, 2019 (SCI-Expanded)
- XLI. **Modern Assay Techniques for Cancer Drugs: Electroanalytical and Liquid Chromatography Methods**  
KURBANOĞLU S., BAKIRHAN N. K., GÜMÜŞTAŞ M., Ozkan S. A.  
Critical Reviews in Analytical Chemistry, vol.49, no.4, pp.306-323, 2019 (SCI-Expanded)
- XLII. **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, vol.45, no.6, pp.914-921, 2019 (SCI-Expanded)
- XLIII. **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.  
Electroanalysis, vol.31, no.6, pp.1083-1094, 2019 (SCI-Expanded)
- XLIV. **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, vol.285, pp.571-583, 2019 (SCI-Expanded)
- XLV. **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, vol.49, no.2, pp.101-125, 2019 (SCI-Expanded)
- 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**  
Aftab S., ÖZÇELİKAY G., KURBANOĞLU S., Shah A., Iftikhar F. J., ÖZKAN S. A.  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.165, pp.73-81, 2019 (SCI-Expanded)
- XLVII. **Editorial: "Current analytical techniques and applications in pharmaceutical analysis - volume I"**  
KURBANOĞLU S., Ozkan S. A.  
Current Analytical Chemistry, vol.15, no.3, pp.184-185, 2019 (SCI-Expanded)
- XLVIII. **Nanomaterials for Drug Delivery Systems**  
Esim O., KURBANOĞLU S., Savaser A., Ozkan S. A., Ozkan Y.  
NEW DEVELOPMENTS IN NANOSENSORS FOR PHARMACEUTICAL ANALYSIS, pp.273-301, 2019 (SCI-Expanded)
- XLIX. **Electrochemical analysis of antipsychotics**  
KARADURMUŞ L., Kir D., KURBANOĞLU S., Ozkan S. A.  
Current Pharmaceutical Analysis, vol.15, no.5, pp.413-428, 2019 (SCI-Expanded)
- L. **Photoelectrochemical Nanosensors**  
Sultan S., Nimal R., KURBANOĞLU S., Shah A., Ozkan S. A.  
NEW DEVELOPMENTS IN NANOSENSORS FOR PHARMACEUTICAL ANALYSIS, pp.197-229, 2019 (SCI-Expanded)
- LI. **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.  
NEW DEVELOPMENTS IN NANOSENSORS FOR PHARMACEUTICAL ANALYSIS, pp.79-118, 2019 (SCI-Expanded)
- LII. **Molecularly Imprinted Polymer-Based Nanosensors for Pharmaceutical Analysis**  
KURBANOĞLU S., Yarman A., Scheller F. W., Ozkan S. A.  
NEW DEVELOPMENTS IN NANOSENSORS FOR PHARMACEUTICAL ANALYSIS, pp.231-271, 2019 (SCI-Expanded)
- LIII. **Chemical Nanosensors in Pharmaceutical Analysis**  
KURBANOĞLU S., BAKIRHAN N. K., Shah A., Ozkan S. A.  
NEW DEVELOPMENTS IN NANOSENSORS FOR PHARMACEUTICAL ANALYSIS, pp.141-170, 2019 (SCI-Expanded)
- LIV. **Current analytical techniques and applications in pharmaceutical analysis-volume ii**  
KURBANOĞLU S., Ozkan S. A.  
Current Analytical Chemistry, vol.15, no.4, pp.322-323, 2019 (SCI-Expanded)
- LV. **Electrochemical determination of non-steroidal anti-inflammatory drugs**  
KARADURMUŞ L., Sahin I. F., KURBANOĞLU S., Ozkan S. A.  
Current Analytical Chemistry, vol.15, no.4, pp.485-501, 2019 (SCI-Expanded)
- 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**  
KURBANOĞLU S., Esim O., Ozkan C. K., Savaser A., Ozkan Y., ÖZKAN S. A.  
CHROMATOGRAPHIA, vol.82, no.1, pp.279-285, 2019 (SCI-Expanded)
- LVII. **Introduction to Nanosensors**  
İftikhar F. J., Shah A., Akhter M. S., KURBANOĞLU S., Ozkan S. A.  
NEW DEVELOPMENTS IN NANOSENSORS FOR PHARMACEUTICAL ANALYSIS, pp.1-46, 2019 (SCI-Expanded)
- LVIII. **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, vol.15, no.3, pp.277-293, 2019 (SCI-Expanded)
- LIX. **Recent developments on electrochemical flow injection in pharmaceuticals and biologically important compounds**  
KURBANOĞLU S., ÜNAL M. A., ÖZKAN S. A.  
ELECTROCHIMICA ACTA, vol.287, pp.135-148, 2018 (SCI-Expanded)
- LX. **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.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.827, pp.51-57, 2018 (SCI-Expanded)
- LXI. **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.  
ELECTROANALYSIS, vol.30, no.7, pp.1496-1504, 2018 (SCI-Expanded)
- LXII. **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.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.540, no.1-2, pp.132-149, 2018 (SCI-Expanded)
- LXIII. **A Novel Enzymatic Biosensor for the Detection of Catechol Using Multi-walled Carbon Nanotubes and Gold Nanowires**  
KURBANOĞLU S., ÖZKAN S. A.  
ELECTROCATALYSIS, vol.9, no.2, pp.252-257, 2018 (SCI-Expanded)
- LXIV. **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, pp.59-90, 2018 (SCI-Expanded)
- LXV. **Electrochemical carbon based nanosensors: A promising tool in pharmaceutical and biomedical analysis**  
KURBANOĞLU S., ÖZKAN S. A.

- JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.147, pp.439-457, 2018 (SCI-Expanded)
- LXVI. **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, vol.42, no.5, pp.1408-1419, 2018 (SCI-Expanded)
- LXVII. **Electrochemical MIP-Sensors for Drugs**  
YARMAN A., KURBANOĞLU S., Jetzschmann K. J., ÖZKAN S. A., Wollenberger U., Scheller F. W.  
CURRENT MEDICINAL CHEMISTRY, vol.25, no.33, pp.4007-4019, 2018 (SCI-Expanded)
- LXVIII. **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.  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.142, pp.74-83, 2017 (SCI-Expanded)
- LXIX. **DIFFERENTIAL PULSE VOLTAMMETRIC DETERMINATION OF ROSUVASTATIN VIA GLASSY CARBON ELECTRODE**  
KARADURMUŞ L., KURBANOĞLU S., USLU B., ÖZKAN S. A.  
REVUE ROUMAINE DE CHIMIE, vol.62, no.6-7, pp.579-586, 2017 (SCI-Expanded)
- LXX. **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, vol.62, no.6-7, pp.517-523, 2017 (SCI-Expanded)
- LXXI. **Nanomaterials-based enzyme electrochemical biosensors operating through inhibition for biosensing applications**  
KURBANOĞLU S., ÖZKAN S. A., Merkoci A.  
BIOSENSORS & BIOELECTRONICS, vol.89, pp.886-898, 2017 (SCI-Expanded)
- LXXII. **Electrochemically reduced graphene and iridium oxide nanoparticles for inhibition-based angiotensin-converting enzyme inhibitor detection**  
KURBANOĞLU S., Rivas L., ÖZKAN S. A., Merkoci A.  
BIOSENSORS & BIOELECTRONICS, vol.88, pp.122-129, 2017 (SCI-Expanded)
- LXXIII. **Electrochemical DNA Biosensors in Drug Analysis**  
KARADURMUŞ L., KURBANOĞLU S., USLU B., ÖZKAN S. A.  
CURRENT PHARMACEUTICAL ANALYSIS, vol.13, no.3, pp.195-207, 2017 (SCI-Expanded)
- LXXIV. **CARBON-BASED NANOSTRUCTURES FOR ELECTROCHEMICAL ANALYSIS OF ORAL MEDICINES**  
KURBANOĞLU S., USLU B., ÖZKAN S. A.  
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- LXXV. **Diffusion, Adsorption and Electrode Kinetics of Electro-oxidations on a Stationary Solid Electrode**  
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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**  
KARADURMUŞ QUESADA GONZALEZ L., Shahzad S., KURBANOĞLU S., Shah A., ÖZKAN S. A.  
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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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- XL. **Gold Nanoparticles Modified Screen Printed Electrode For Sensitive Detection/Enhanced Sensing Of Anticancer Drug Irinotecan-DNA Interaction**  
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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**  
SAVAŞER A., EŞİM Ö., KURBANOĞLU S., TAŞ Ç., ÖZKAN S. A., ÖZKAN Y.  
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- LI. **ELETRIPTAN HYDROBROMIDE-PLGA NANOPARTICLES: EFFECT OF FORMULATION VARIABLES ON**

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- LII. **Electrochemical nanobiosensor for the detection of catechol**  
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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**



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- LXVI. **Electrochemical Glucose Biosensing via New Generation Conducting Polymers Gold Nanoparticles Glucose Oxidase Modified Electrodes**  
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8. Ulusal Analitik Kimya Kongresi, Isparta, Turkey, 30 May - 03 June 2016
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8. Ulusal Analitik Kimya Kongresi, Turkey, 30 May - 03 June 2016
- 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**

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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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- XCII. **Sensitive and validated bio-analytical assay of metoclopramide by LC-MS and application to rabbit blood samples**

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- XCv. **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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- CI. **A novel, sensitive and selective RP-LC method for the simultaneous determination of the antihypertensive drugs, enalapril-lercanidipine**  
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- CII. **Electrochemical Investigations of Anticancer Drug Idarubicin Using Multi-Walled Carbon Nanotubes Modified Glassy Carbon and Pyrolytic Graphite Electrode**  
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- CIV. **Carbon nanotube modified electrodes for electrochemical assay of idarubicin**  
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- CV. **Simultaneous estimation and validation of some binary mixtures of antihypertensive drugs by RP-LC method**

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- CVI. Yeni nesil kolonlarla antihipertansif ilaç etken maddeleri için eş zamanlı tayin yöntemleri ve validasyonu**  
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International Workshops on Surface Modification for Chemical and Biochemical Sensing (SMCBS'09), 6 - 10 November 2009
- CXIV. Amperometric glucose biosensing via pyronase oxidase biosensor modified with conducting polymer of 4 2 5 di thiophen 2 yl 1H pyrrole 1 l benzenamine**  
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## Supported Projects

- Kurbanoglu S., Alhardan R., Project Supported by Higher Education Institutions, Çevresel İzlemeye Yönelik Enzim Bazlı Elektrokimyasal Biyosensörlerin Geliştirilmesi, 2024 - 2025
- Kurbanoglu S., Erkmen C., TUBITAK Project, Tek Adımlı Sentez ile Hazırlanan Bimetalik Nanomalzemeler Temelli Aptamer ve Moleküler Baskılı Polimerleri İçeren Hibrit Sensör Sistemlerinin Organofosforlu Pestisitlerin Seçici Tayini için Geliştirilmesi, 2024 - 2025
- Kurbanoglu S., Cihan M., Project Supported by Higher Education Institutions, Alerjik Rinit Semptomlarının Giderilmesinde Kullanılan Azelastin Hidroklorür ve Flutikazon Propiyonat İlaç Etkin Maddelerinin Eş Zamanlı Tayini İçin Kromatografik Yöntem Geliştirilmesi ve Validasyon, 2024 - 2025
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- Selçuk Ö., Erkmen C., Ünal D. N., Küçük İ., Kurbanoglu S., Uslu B., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Development of Molecular Imprinted Polymers and Aptamer Based Electrochemical Diagnostic Kit for Use in the Diagnosis of Monocyte Chemoattractant Protein-1 (MCP-1), 2023 - 2025
- Kurbanoglu S., Erkmen C., Sadak S., Project Supported by Higher Education Institutions, Antikanser ilaç Nelarabinin elektrokimyasal özelliklerinin incelenmesi ve hassas tayinine yönelik elektrokimyasal nanosensör geliştirilmesi, 2022 - 2024
- Kurbanoglu S., Söylemez S., Özçubukçu S., TUBITAK Project, Anti-Alzheimer ilaç etken maddesi Piridostigmin'in Asetilkolinesteraz enzimi üzerindeki inhibisyon etkilerini incelemek amaçlı fonksiyonel fulleranolün sentezi ve fonksiyonel fulleranol bazlı elektrokimyasal nanobiyosensör tasarımı, 2021 - 2023
- Kurbanoglu S., Erkmen C., Project Supported by Higher Education Institutions, Non-steroidal antiinflatuvar ilaç diklofenakın tirozinaz inhibisyonuna etkisinin elektrokimyasal olarak araştırılmasına yönelik kuantum noktacık bazlı biyosensör tasarımı, 2021 - 2022
- KURBANOĞLU S., KARADURMUŞ L., Project Supported by Higher Education Institutions, Rosuvastatin ve Ezetimib içeren kombine dozaj formların analizine yönelik kromatografik ve elektrokimyasal yöntemlerin geliştirilmesi, 2017 - 2019
- ÜNAL M. A., ARI F., KURBANOĞLU S., Project Supported by Higher Education Institutions, Çeşitli ilaçların analizinde kullanılmak üzere akışa enjeksiyon sistemlerinin geliştirilmesi, 2017 - 2018
- KURBANOĞLU S., Project Supported by Higher Education Institutions, Sildenafil ilaç etken maddesinin Tirozinaz enzimi üzerine inhibisyon etkisinin elektrokimyasal olarak incelenmesine ait nanobiyosensör dizaynı, 2017 - 2017
- KURBANOĞLU S., ÖZKAN S. A., Project Supported by Higher Education Institutions, Çeşitli İlaçların Tirozinaz İnhibisyonundaki Rollerini İncelemek Amaçlı Elektrokimyasal Nanobiyosensör Tasarımı, 2014 - 2016
- TUBITAK Project, İletken Polimerlerin Nanomateryaller İle Modifikasyonu Ve Farklı Enzim Sensörlerinin Geliştirilmesinde Immobilizasyon Platformu Olarak Kullanımları, 2009 - 2010

## Scientific Refereeing

- TÜBİTAK International Bilateral Joint Cooperation Program Project, Italian National Research Council, CNR Bilateral Joint Cooperation Program, Sabanci University, Turkey, October 2024
- TÜBİTAK International Bilateral Joint Cooperation Program Project, Korean National Research Foundation, NRF Bilateral Joint Cooperation Program, Istanbul University, Turkey, October 2024
- TÜBİTAK International Bilateral Joint Cooperation Program Project, Korean National Research Foundation, NRF Bilateral Joint Cooperation Program, Akdeniz University, Turkey, October 2024
- TUBITAK Project, 1002 - Quick Support Program, Ege University, Turkey, March 2024
- SENSORS AND ACTUATORS, A: PHYSICAL, SCI Journal, December 2023
- BIOELECTROCHEMISTRY, SCI Journal, December 2023

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R&D Project of Group B, Atilim University, Turkey, August 2023  
R&D Project of Group B, University Of Health Sciences, Turkey, August 2023  
R&D Project of Group B, Eskisehir Osmangazi University, Turkey, August 2023  
R&D Project of Group B, Karamanoglu Mehmetbey University, Turkey, August 2023  
BIOSENSORS AND BIOELECTRONICS, SCI Journal, July 2023  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, SCI Journal, July 2023  
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Emergency R&D Project of Group A, Uskudar University, Turkey, February 2023

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## Congress and Symposium Activities

6th International Congress on BIOSENSORS, Attendee, Konya, Turkey, 2024  
14th International Symposium on Pharmaceutical Sciences (ISOPS), Attendee, Ankara, Turkey, 2024  
13th Workshop on Biosensors and Bioanalytical Microtechniques in Enviromental Food and Clinical Analysis (BBMEC)), Attendee, İzmir, Turkey, 2024  
5th International Congress on Analytical and Bioanalytical Chemistry (ICABC), Invited Speaker, Antalya, Turkey, 2024  
International Conference on Innovations in Sustainable Energy and Material Science (ISEMS 2024), Invited Speaker, Tamil Nadu, India, 2024  
International Conference on Advances in Material Science and Chemistry ICAMSC-2023, Invited Speaker, Tamil Nadu, India, 2023  
NANOBALKAN 2023, Attendee, Tirane, Albania, 2023  
33rd International Symposium on Pharmaceutical and Biomedical Analysis PBA2023, Attendee, Ankara, Turkey, 2023

## Awards

Kurbanoğlu S., Ankara Üniversitesi Teşvik Ödülü, Ankara Üniversitesi, October 2024  
Kurbanoğlu S., Bilim Akademisi Genç Bilim İnsanları Ödül Programı (BAGEP 2024), Bilim Akademisi Derneği, April 2024  
Kurbanoğlu S., Ankara Üniversitesi Eczacılık Fakültesi Araştırma Performans 3.lük Ödülü, Ankara Üniversitesi, January 2023  
Kurbanoğlu S., Ankara Üniversitesi Sağlık Bilimleri Alanı Genç Bilim İnsanı Ödülü, Ankara Üniversitesi, January 2023  
Kurbanoğlu S., Biosensors 2021 Early-Career Women Award, Mpdı-Biosensors, February 2022  
Kurbanoğlu S., Young Analytical Chemist Constantin Luca Award , Romanian International Chapter Of Acs, July 2018  
Kurbanoğlu S., YÖK Üstün Başarı Ödülü 2017 Sağlık Alanında Yılın Doktora Tezi, Yükseköğretim Kurulu Başkanlığı,

January 2017