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Education Information

Doctorate, Ankara University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (Dr), Turkey 2016 - 2019

Postgraduate, Ankara University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (YI) (Tezli), Turkey 2014 - 2016

Undergraduate, Hacettepe University, Fen Fakültesi, Kimya Bölümü, Turkey 2009 - 2013

Dissertations

Doctorate, Kanser ve nörolojik hastalıklara yönelik elektrokimyasal biyosensör sistemlerinin geliştirilmesi, Ankara University, Sağlık Bilimleri Enstitüsü, 2022

Postgraduate, Antiviral ilaç etken maddesi tenofovir in elektrokimyasal davranışı için nanosensör tasarımı, Ankara University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (YI) (Tezli), 2016

Research Areas

Analytical Chemistry

Academic Titles / Tasks

Lecturer PhD, Ankara University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2017 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Emerging trends of ion-selective electrodes in pharmaceutical applications**
Jadon N., Hosseinzadeh B., Kaya S. I., ÖZÇELİKAY AKYILDIZ G., Cetinkaya A., ÖZKAN S. A.
Electrochimica Acta, vol.488, 2024 (SCI-Expanded)
- II. **Ultrasensitive electrochemical immunosensor system for determination of autologous SOX2 antibody**
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- III. **Biosensors for stem cell-based applications: Current trends and future prospects**
Arif T., BİLGE YÜCEL S., UYAR R., ÖZÇELİKAY AKYILDIZ G., Summak G. Y., ÜNAL M. A., YILMAZER AKTUNA A., ÖZKAN S. A.
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- IV. **Early cancer detection based on exosome biosensors in biological samples**

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- V. **Carbon Dots in the Detection of Pathogenic Bacteria and Viruses**
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- VI. **Molecularly imprinted electrochemical sensor for the selective and sensitive determination of octreotide in cancer patient plasma sample**
Ozkan E., Ozcelikay G., Topak E. D. G., NEMUTLU E., ÖZKAN S. A., DİZDAR Ö., AKSOY S., KIR S.
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- VII. **Electrochemical bioplatfrom for the determination of the most common and carcinogenic human papillomavirus DNA**
Ozcelikay G., Gamella M., Solís-Fernández G., Barderas R., Pingarrón J. M., Campuzano S., ÖZKAN S. A.
Journal of Pharmaceutical and Biomedical Analysis, vol.231, 2023 (SCI-Expanded)
- VIII. **The electrochemical quantitation method for sugammadex via a molecularly imprinted polymer-based sensor**
ÖZÇELİKAY AKYILDIZ G., Cetinkaya A., Atici E. B., ÖZKAN S. A.
ANALYTICAL METHODS, vol.15, no.19, pp.2309-2317, 2023 (SCI-Expanded)
- IX. **Nanomaterial-based electrochemical sensing platform for the determination of Olaparib**
Majidian M., Ozcelikay G., Cetinkaya A., ÜNAL M. A., NAZIR H., Atici E. B., ÖZKAN S. A.
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- X. **Approaches and Challenges for Biosensors for Acute and Chronic Heart Failure**
Kaya S. I., Cetinkaya A., Ozcelikay G., Samanci S. N., ÖZKAN S. A.
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- XI. **Comparative study of electrochemical-based sensors and immunosensors in terms of advantageous features for detection of cancer biomarkers**
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- XII. **A Comparative Study of Molecular Imprinting Techniques Used for Fabrication of Electrochemical Sensor of Olaparib**
Kaya S. I., Majidian M., ÖZÇELİKAY AKYILDIZ G., Cetinkaya A., DOĞAN TOPAL B., Atici E. B., ÖZKAN S. A.
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- XIII. **Ultrasensitive Determination of Glial-Fibrillary-Acidic-Protein (GFAP) in Human Serum-Matrix with a Label-Free Impedimetric Immunosensor**
Ozcelikay G., Mollarasouli F., ÜNAL M. A., Gucuyener K., ÖZKAN S. A.
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- XIV. **Electrochemical chiral sensor based on molecularly imprinted polymer for determination of (1S,2S)-pseudoephedrine in dosage forms and biological sample**
Karadurmuş L., Özçelikay G., Armutcu Çorman C., Özkan S. A.
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- XV. **Assisting dementia diagnosis through the electrochemical immunosensing of glial fibrillary acidic protein**
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Talanta, vol.246, 2022 (SCI-Expanded)
- XVI. **Rapid and Sensitive Electrochemical Assay of Cefditoren with MWCNT/Chitosan NCs/Fe2O3 as a Nanosensor**
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- XVII. **Carbon Nanomaterials-Based Novel Hybrid Platforms for Electrochemical Sensor Applications in Drug Analysis**

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- XVIII. **New analytical strategies Amplified with 2D carbon nanomaterials for electrochemical sensing of food pollutants in water and soils sources**
Özçelikay G., Karadurmuş L., Bilge S., Sınağ A., Özkan S. A.
Chemosphere, vol.296, 2022 (SCI-Expanded)
- XIX. **Metal-organic frameworks as an alternative smart sensing platform for designing molecularly imprinted electrochemical sensors**
Çorman M., Özçelikay G., Cetinkaya A., Kaya S., Armutcu C., Özgür E., Uzun L., Özkan S. A.
TrAC - Trends in Analytical Chemistry, vol.150, 2022 (SCI-Expanded)
- XX. **Electrochemical Sensing of Anticancer Drug Using New Electrocatalytic Approach**
Cetinkaya A., Karadurmuş L., Kaya S. I., Özçelikay G., Ozkan S. A.
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- XXI. **Sensitive and cost-effective boron doped diamond and Fe2O3/Chitosan nanocomposite modified glassy carbon electrodes for the trace level quantification of anti-diabetic dapagliflozin drug**
Ozkan E., Cetinkaya A., Özçelikay G., Nemutlu E., Kır S., Özkan S. A.
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- XXII. **Computational design and fabrication of a highly selective and sensitive molecularly imprinted electrochemical sensor for the detection of enzalutamide**
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- XXIII. **Recent achievements and challenges on nanomaterial based electrochemical biosensors for the detection of colon and lung cancer biomarkers**
Kaya S., Özçelikay G., Mollarasouli F., Bakirhan N. K., Özkan S. A.
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- XXIV. **An Ultra-Sensitive Molecularly Imprinted Poly(Aniline) Based Electrochemical Sensor for the Determination of Bisphenol A in Synthetic Human Serum Specimen and Plastic Bottled Water Samples**
Kaya S. I., Özçelikay G., Armutcu Çorman C., Özkan S. A.
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- XXV. **Boron-Doped Diamond Electrodes: Recent Developments and Advances in View of Electrochemical Drug Sensors**
Yence M., Cetinkaya A., Özçelikay G., Kaya S. I., Özkan S. A.
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- XXVI. **Sensor-based MIP technologies for targeted metabolomics analysis**
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- XXVII. **Current Advances in Electrochemical Biosensors and Nanobiosensors**
Bakirhan N. K., Doğan Topal B., Özçelikay G., Karadurmuş L., Özkan S. A.
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- XXVIII. **A porous molecularly imprinted nanofilm for selective and sensitive sensing of an anticancer drug ruxolitinib**
Çorman M. E., Cetinkaya A., ÖZÇELİKAY G., ÖZGÜR E., Atici E. B., UZUN L., ÖZKAN S. A.
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- XXIX. **A molecularly imprinted electrochemical sensor based on highly selective and an ultra-trace assay of anti-cancer drug axitinib in its dosage form and biological samples**
Cetinkaya A., Kaya S. I., ÖZÇELİKAY G., Atici E. B., ÖZKAN S. A.
TALANTA, vol.233, 2021 (SCI-Expanded)
- XXX. **An Overview on Quantum Dot-based Nanocomposites for Electrochemical Sensing on Pharmaceutical Assay**
KARADURMUŞ L., ÖZÇELİKAY G., Vural S., ÖZKAN S. A.

Iranian Journal of Pharmaceutical Research, vol.20, no.3, pp.187-203, 2021 (SCI-Expanded)

- XXXI. **Magnetic nanoparticles in developing electrochemical sensors for pharmaceutical and biomedical applications**
Mollarasouli F., ZOR E., ÖZÇELİKAY G., ÖZKAN S. A.
TALANTA, vol.226, 2021 (SCI-Expanded)
- XXXII. **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)
- XXXIII. **A selective and molecular imaging approach for anticancer drug: Pemetrexed by nanoparticle accelerated molecularly imprinting polymer**
ÖZÇELİKAY G., Karadas-Bakirhan N., TAŞKIN TOK T., Ozkan S. A.
Electrochimica Acta, vol.354, 2020 (SCI-Expanded)
- XXXIV. **A Review: New Trends in Electrode Systems for Sensitive Drug and Biomolecule Analysis**
ÖZÇELİKAY G., KARADURMUŞ L., Kaya S. I., BAKIRHAN N. K., Ozkan S. A.
Critical Reviews in Analytical Chemistry, vol.50, no.3, pp.212-225, 2020 (SCI-Expanded)
- XXXV. **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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- XXXVI. **NH₂-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)
- XXXVII. **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.
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- XXXVIII. **A novel electrochemical nanosensor based on NH₂-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.
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- XXXIX. **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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- XL. **Recent progress on the sensitive detection of cardiovascular disease markers by electrochemical-based biosensors**
BAKIRHAN N. K., ÖZÇELİKAY G., ÖZKAN S. A.
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.159, pp.406-424, 2018 (SCI-Expanded)
- XLI. **An Electrochemical Sensor Based on Silver Nanoparticles-Benzalkonium Chloride for the Voltammetric Determination of Antiviral Drug Tenofovir**
ÖZÇELİKAY G., DOĞAN TOPAL B., ÖZKAN S. A.
ELECTROANALYSIS, vol.30, no.5, pp.943-954, 2018 (SCI-Expanded)
- XLII. **ELECTROCHEMICAL CHARACTERISTICS OF TENOFOVIR AND ITS DETERMINATION IN DOSAGE FORM BY ELECTROANALYTICAL METHODS**
ÖZÇELİKAY G., DOĞAN TOPAL B., ÖZKAN S. A.
REVUE ROUMAINE DE CHIMIE, vol.62, no.6-7, pp.569-578, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **DEVELOPMENT OF ELECTROCHEMICAL SENSOR BY MOLECULARLY IMPRINTING POLYMER FOR DETECTION OF AN INFLUENZA VIRUS NEURAMINIDASE INHIBITOR PERAMIVIR**
ÖZÇELİKAY AKYILDIZ G., ÖZKAN S. A.
Ankara Üniversitesi Eczacılık Fakültesi Dergisi, vol.48, no.1, 2023 (Scopus)
- II. **Recent advances in electrochemical biosensors for detection of oncoviruses**
Ozcelikay G., Kaya S. I., Cetinkaya A., Özkan S. A.
Biosensors and Bioelectronics: X, vol.12, 2022 (Scopus)

Books & Book Chapters

- I. **Prospects of Electrochemical Sensors for Sustainable Future**
Yence M., Çetinkaya A., Kaya S. İ., Özçelikay Akyıldız G., Özkan S. A.
in: Recent Developments in Green Electrochemical Sensors: Design, Performance, and Applications, J. G. Manjunatha, Chaudhery Mustansar Hussain, Editor, ACS Publications, New Jersey, pp.411-439, 2023
- II. **Development of 2D Nanomaterials-Based Sensors for Detection of Toxic Environmental Pollutants**
Kaya S. İ., Yence M., Özçelikay Akyıldız G., Çetinkaya A., Budak F., Özkan S. A.
in: Two-Dimensional Materials for Environmental Applications, Neeraj Kumar, Rashi Gusain, Suprakas Sinha Ray, Editor, Springer, London/Berlin, Berlin, pp.269-297, 2023
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in: Two-Dimensional Materials for Environmental Applications, Neeraj Kumar, Rashi Gusain, Suprakas Sinha Ray, Editor, Springer, London/Berlin, Berlin, pp.327-349, 2023
- IV. **Current developments in nanobioremediation via electrochemistry**
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in: Nanoremediation Modern Technologies for Treatment of Environmental Pollutants, Chaudhery Mustansar Hussain, Nashaat N. Nassar, Editor, Elsevier Science, Oxford/Amsterdam, Amsterdam, pp.363-389, 2023
- V. **Types of Biosensors and their Importance in Cardiovascular Applications.**
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- VI. **Validation Requirements in Biosensors**
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in: The Detection of Biomarkers Past, Present, and the Future Prospects, Sibel Ozkan, Nurgul Bakirhan, Fariba Mollarasouli, Editor, Academic Press, Massachusetts, pp.209-224, 2021
- VIII. **Electrochemical virus detections with nanobiosensors**
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- X. **Biocompatible nanoparticles in drug delivery systems and their recent electrochemical applications in drug assays**
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Refereed Congress / Symposium Publications in Proceedings

- I. **THE FIRST ELECTROCHEMICAL MIP SENSOR FOR SUGAMMADEX**
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- II. **Disposable Rapid Magnetic Microbeads-based Immunoplatfor for the Sensitive Amperometric Assessment of SOX2**
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- IV. **Novel Electrochemical Nanosensor Based on COOH-Functionalized Multi Walled Carbon Nanotubes Decorated with Quantum Dots for The Determination of Clopidogrel**
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- VI. **Ultrasensitive label-free electrochemical impedance immunosensor based on 11-Mercapto undecanoic acid/Au NPs/L-cysteine modified screen printed carbon electrode for the detection of Glial Fibrillary Acidic Protein**
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- VII. **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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- VIII. **A Novel Molecularly Imprinted Electrochemical Nanosensor Modified with Carbon Quantum Dots for the High Selective and Sensitive Determination of Pemetrexed**
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- IX. **Electrochemical determination of antipsychotic drug using a novel nanosensor based on NH₂-functionalized multi walled carbon nanotubes, ZnO nanoparticles and graphene quantum dots**
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- X. **Electrochemical Determination of Catechol-Orto-Methyltransferase Inhibitor using NH₂-Functionalized Multi Walled Carbon Nanotubes based nanosensor**
KURBANOĞLU S., aftab s., ÖZÇELİKAY G., Shah A., Iftikhar F. J., ÖZKAN S. A.
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- XI. **A novel electrochemical nanosensor based on NH₂-Functionalized Multi Walled Carbon Nanotubes Decorated with ZnO Nanoparticles and Graphene Quantum Dots for Pimozide Assay**

ÖZÇELİKAY G., aftab s., KURBANOĞLU S., Shah A., ÖZKAN S. A.

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XII. Electrochemical Investigation of Entacapone Using NH₂ Functionalized Multiwalled Carbon Nanotubes Modified Nanosensor

aftab s., ÖZÇELİKAY G., KURBANOĞLU S., Shah A., ÖZKAN S. A.

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XIII. Molecularly imprinted polymer based nanosensor on AuPt surface for the selective and sensitive electrochemical assay of antimicrobial Daptomycin

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

29th International Symposium on Pharmaceutical and Biomedical Analysis, 9 - 12 September 2018

XIV. Electrochemical MIP Sensor For Detection of Butyrylcholine esterase

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

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XV. 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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XVI. Molecularly Imprinted Electrochemical Sensor for determination of lipopeptide antibiolytic drug Daptomycin

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

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XVII. First MIP for the recognition of BUTYRYLCHOLINE ESTERASE

ÖZÇELİKAY G., YARMAN A., KURBANOĞLU S., Jetzschmann k., Neumann B., ÖZKAN S. A., Wollenberger U., Scheller F.

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XVIII. 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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XIX. COMPARATIVE STUDY RELATED WITH ELECTROCHEMICAL BEHAVIOR OF TENOFOVIR ON BARE AND NANOPARTICLE-MODIFIED GLASSY CARBON ELECTRODES

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Supported Projects

Özkan S. A., Arı F., Sezgintürk M. K., Ünal M. A., Özçelikay Akyıldız G., Nazır H., Project Supported by Higher Education Institutions, Beyin hasarı biyobelirteci Glial Fibriler Asidik Protein (GFAP) tespitine yönelik kütle duyarlı immünoensör geliştirilmesi, 2022 - 2025

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Publication: 73

Citation (WoS): 543

Citation (Scopus): 635

H-Index (WoS): 15

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Congress and Symposium Activities

5th International Congress on Biosensors, Attendee, Çanakkale, Turkey, 2022