

## Res. Asst. SELENAY SADAK

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: JED-6578-2023

ScopusID: 57290908000

Yoksis Researcher ID: 400454

### Education Information

Postgraduate, Ankara University, Sağlık Bilimleri Enstitüsü, Turkey 2022 - Continues

Undergraduate, Ankara University, Eczacılık Fakültesi, Turkey 2017 - 2022

### Research Areas

Analytical Chemistry, Health Sciences

### Academic Titles / Tasks

Research Assistant, Ankara University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü, 2023 - Continues

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

- I. **Development and Fabrication of Poly(o-phenylenediamine)-Based Molecularly Imprinted Electroanalytical Sensor for the Determination of a Potent Anticancer Agent, Nelarabine**  
SADAK S., SİLAH H., KURBANOĞLU S., USLU B.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, no.3, 2025 (SCI-Expanded)
- II. **Combination of miniature electrode systems via nanomaterials: Pesticide analysis**  
ÇELİK M., Kucuk I., SADAK S., USLU B.  
Trends in Environmental Analytical Chemistry, vol.45, 2025 (SCI-Expanded)
- III. **Enhanced Electrocatalytic Performance of Eco-friendly Nanomaterial-Based Sensors for the Analysis of Pharmaceutically Important Compounds**  
Kucuk I., SADAK S., SİLAH H., Dindar C. K., BOZAL PALABIYIK B., USLU B.  
Topics in Catalysis, 2025 (SCI-Expanded)
- IV. **A Review on Electrochemical and Optical Sensing Platform Based on Ionic Liquids for Different Molecules Determination**  
Unal D. N., Sadak S., USLU B.  
CRITICAL REVIEWS IN ANALYTICAL CHEMISTRY, vol.53, no.4, pp.798-824, 2023 (SCI-Expanded)

## Books

- I. **Detection of Toxins in Food by Biosensors**  
Sadak S., Silah H., Uslu B.  
in: Biosensing Technology for Human Health: Eco-friendly Materials and Real-world Applications, J G Manjunatha, Editor, Royal Society of Chemistry , Cambridge, pp.362-385, 2024
- II. **Recent advances in electrochemical sensing devices for pharmaceutical and biomedical diagnosis**  
Küçük İ., Sadak S., Selçuk Ö., Erkmen C., Uslu B.  
in: Real-Time Applications of Advanced Electrochemical Sensing Devices, Jamballi G Manjunatha, Editor, Iop Publishing Ltd, Bristol, pp.1-40, 2024
- III. **MIP-Based Electrochemical Sensors**  
Küçük İ., Sadak S., Uslu B.  
in: Molecularly Imprinted Polymers: Path to Artificial Antibodies, Santanu Patra, Sudheesh K. Shukla, Mika Sillanpää, Editor, Springer, London/Berlin , London, pp.69-99, 2024
- IV. **Nanosensors to Detect Food Contaminants**  
Sadak S., Küçük İ., Ünal D. N., Erkmen C., Uslu B.  
in: Nanotechnology in the Food Industry, Sukhvinder Singh Purewal, Avneet Kaur, Editor, Crc Press-Taylor & Francis Group, Florida, pp.132-156, 2024
- V. **Electrochemical Investigation of Benzylpiperazine**  
Khan R., Sadak S., Kanbeş Dindar Ç., Haider A., Uslu B.  
in: Forensic Electrochemistry: The Voltammetry for Sensing and Analysis, J. G. Manjunatha, Editor, ACS Publications , Washington, pp.227-242, 2024
- VI. **Surfactant-based sensing platform for the detection of heavy metals**  
Silah H., Kanbeş Dindar Ç., Sadak S., Uslu B.  
in: Surfactant Based Electrochemical Sensors and Biosensors, Jamballi G. Manjunatha, Chaudhery Mustansar Hussain, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.133-163, 2024
- VII. **İlaç Analizlerinde Aptansensör Tasarımları**  
Sadak S., Küçük İ., Silah H., Uslu B.  
in: CUMHURİYETİN 100. YILINDA ECZACILIKTA YENİLİKLER 4, Prof. Dr. Asuman Bozkır, Prof. Dr. İlkey Yıldız, Editor, Ankara Üniversitesi, Ankara, pp.39-52, 2023
- VIII. **Review of Surfactants, Structural Properties and Their Role in Electrochemistry**  
Ünal D. N., Sadak S., Erkmen C., Selçuk Ö., Uslu B.  
in: Surfactant-based Sensors in Chemical and Biochemical Detection, J G Manjunatha, Editor, Royal Society of Chemistry , London, pp.1-18, 2023
- IX. **Disposable Electrochemical Sensors for Biomedical Applications**  
Sadak S., Atay İ., Kurbanoglu S., Uslu B.  
in: Recent Developments in Green Electrochemical Sensors: Design, Performance, and Applications, J. G. Manjunatha, Chaudhery Mustansar Hussain, Editor, ACS Publications , Washington, pp.157-191, 2023
- X. **Review of Surfactants, Structural Properties and Their Role in Electrochemistry**  
Ünal D. N., SADAK S., ERKMEN C., SELÇUK Ö., USLU B.  
in: Surfactant-based Sensors in Chemical and Biochemical Detection, J G Manjunatha, Editor, Royal Society of Chemistry , pp.1-18, 2023

## Papers Published in Refereed Scientific Meetings

- I. **Preparation of MIP-Based Electrochemical Sensor Surfaces: Utilisation in the Selective Detection of L-Citruline Amino Acid**  
Meraki G. E., Sadak S., Uslu B.  
6th Eurasia Biochemical Approaches & Technologies Congress (EBAT), Tokat, Turkey, 24 - 27 October 2024
- II. **Design and Applications of Electrochemical Nanozyme Platform Consisting of Magnetic Nanomaterials and Inorganic Nanomaterials**  
Sadak S., Kanbes Dindar Ç., Uslu B.

6th Eurasia Biochemical Approaches & Technologies Congress (EBAT), Tokat, Turkey, 24 October 2024

**III. Investigation of Electrochemical Properties Associated with the Sensitive and Selective Quantification of Cinacalcet Using a Sensor Based on Molecularly Imprinted Polymer**

Küçük İ., Sadak S., Altınöz S., Uslu B.

6th Eurasia Biochemical Approaches & Technologies Congress (EBAT), Tokat, Turkey, 24 - 27 October 2024, pp.1

**IV. EXHAUSTIVE APPROACHES FOR THE INTERACTIONS OF AN ANTIHYPERTENSIVE DRUG MACITENTAN WITH BOVINE SERUM ALBUMIN**

Sadak S., Kabir M. Z., Kanbeş Dindar Ç., Uslu B.

14th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Turkey, 25 - 28 June 2024, pp.81

**V. Electrochemical and Spectroscopic Approaches Shed Light On The Interaction Of A Pesticide Quinoxifen With Double-Stranded DNA**

Sadak S., Khan R., Kanbeş Dindar Ç., Haider A., Uslu B.

13th Workshop on Biosensors & Bioanalytical Microtechniques in Environmental, Food and Clinical Analysis (BBMEC), İzmir, Turkey, 20 May - 23 November 2024, pp.33

## Supported Projects

Bozal Palabıyık B., Kanca N., Çabuk T. Z., Uslu B., TUBITAK Project, Non-Steroidal Antiinflatuvar İlaçların Süt Numunelerinden Hassas ve Hızlı Tayini İçin Nanoteknoloji Tabanlı Hibrit Analitik Yöntem Geliştirilmesi, 2023 - 2025  
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  
Sadak S., Küçük İ., Atay İ., Uslu B., TUBITAK Project, Manyetik Nanomateryal ve İnorganik Nanomalzemelerden Oluşan Elektrokimyasal Nanozim Platformu Tasarımı ve Uygulamaları, 2022 - 2024

## Activities in Scientific Journals

ANKARA UNIVERSİTESİ ECZACILIK FAKULTESİ DERGİSİ, Committee Member, 2024 - Continues

## Metrics

Publication: 19

Citation (WoS): 3

Citation (Scopus): 4

H-Index (WoS): 1

H-Index (Scopus): 1