

## Res. Asst. MEHMETCAN BİLKAY

### Personal Information

**Email:** mehmetcanbilkay@gazi.edu.tr

**Other Email:** mehmetcanbilkay@gmail.com

**Web:** <https://avesis.gazi.edu.tr/12182>

### International Researcher IDs

ScholarID: wA4Qp-gAAAAJ

ORCID: 0000-0003-1625-8666

Publons / Web Of Science ResearcherID: AHE-1430-2022

ScopusID: 57658715000

Yoksis Researcher ID: 314734

### Education Information

Doctorate, Gazi University, Sağlık Bilimleri Enstitüsü, Analitik Kimya (Dr), Turkey 2020 - Continues

Undergraduate, Ankara University, Eczacılık Fakültesi, Eczacılık Pr., Turkey 2014 - 2019

### Research Areas

Analytical Chemistry

### Academic Titles / Tasks

Research Assistant, Gazi University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri, 2020 - Continues

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

- I. **Unraveling the interaction mechanism between orphan drug Nitisinone and bovine serum albumin through spectroscopic and in silico approaches**  
Bilkay M., Yazıcı S., Erkmén C., Çelik İ., Şatana Kara H. E.  
SPECTROCHIMICA ACTA - PART A: MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.322, no.124818, pp.1-13, 2024 (SCI-Expanded)
- II. **Spectroscopic, electrochemical, and molecular docking studies of the interaction between the antihistamine drug desloratadine and dsDNA**  
Bilkay M., Kanbeş Dindar Ç., Bozal Palabıyık B., Eren G., Şatana Kara H. E., Uslu B.  
ANALYTICAL BIOCHEMISTRY, vol.694, no.115622, pp.1-7, 2024 (SCI-Expanded)
- III. **Synthesis of novel phenylalanine-coated copper nanoclusters for fluorescent probes to determine the interactions of cancer drugs with DNA**  
Bilkay M., Şatana Kara H. E.  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.249, no.116365, pp.1-10, 2024 (SCI-Expanded)
- IV. **Development of a new nanosensor for the determination of food coloring Sunset Yellow in powder drinks using L-cysteine coated copper nanoclusters**  
Bilkay M., Karataş B., Şatana Kara H. E.

TURKISH JOURNAL OF CHEMISTRY, vol.48, no.2, pp.218-228, 2024 (SCI-Expanded)

**V. Fluorometric determination of ornidazole by using BSA coated copper nanoclusters as a novel turn off sensor**

BİLKAY M., ŞATANA KARA H. E.

Turkish Journal of Chemistry, vol.46, no.2, pp.475-486, 2022 (SCI-Expanded)

## Books & Book Chapters

**I. İlaç ve Biyobelirteç Analizlerinde Nanobiyosensör Uygulamaları**

Bilkay M., Erkmen C., Şatana Kara H. E., Uslu B.

in: Eczacılıkta Yenilikler 3, Prof. Dr. Gülbin Özçelıkay, Prof. Dr. İlkey Yıldız, Editor, Ankara Üniversitesi, Ankara, pp.67-92, 2020

## Refereed Congress / Symposium Publications in Proceedings

**I. SPECTROSCOPIC AND IN SILICO APPROACHES ON THE INTERACTION BETWEEN ORPHAN DRUG NITISINONE AND BOVINE SERUM ALBUMIN**

Bilkay M., Yazıcı Ş., Erkmen C., Çelik İ., Şatana Kara H. E.

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

**II. THE INTERACTION STUDY OF ABIRATERONE ACETATE AND DNA USING PHENYLALANINE-COATED COPPER NANOCLUSTERS AS A FLUORESCENT PROBE**

Bilkay M., Şatana Kara H. E.

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

**III. Synthesis, characterization and optimization of novel phenylalanine-coated copper nanoclusters with high fluorescence intensity**

Bilkay M., Şatana Kara H. E.

PBA2023, 33 rd International Symposium on Pharmaceutical and Biomedical Analysis, Ankara, Turkey, 02 July 2023

**IV. L-SİSTEİN KAPLI BAKIR NANOKÜMELER KULLANILARAK SUNSET YELLOW TAYİNİ İÇİN FLORESANS NANOSENSÖR GELİŞTİRİLMESİ**

Bilkay M., Karataş B., Şatana Kara H. E.

10. Ulusal Analitik Kimya Kongresi, Muğla, Turkey, 7 - 11 September 2022, pp.51

**V. DESLORATADİN ve DNA ETKİLEŞİMİNİN SPEKTROFLORİMETRİK OLARAK İNCELENMESİ**

Karataş B., Bilkay M., Şatana Kara H. E.

10. Ulusal Analitik Kimya Kongresi, Muğla, Turkey, 7 - 11 September 2022, pp.156

**VI. Synthesis of L-cysteine mediated copper nanoclusters as a turn-off fluorescent probe for the detection of indigotine**

Bilkay M., Şatana Kara H. E.

3th International Gazi Pharma Symposium Series, GPSS 21, Ankara, Turkey, 8 - 10 September 2021, pp.1

**VII. Determination of ornidazole in pharmaceutical dosage forms using BSA coated fluorescent copper nanocluster**

BİLKAY M., ŞATANA KARA H. E.

13th Int. Symp. on Pharm. Sciences, 22 June 2021

## Supported Projects

Bilkay M., TUBITAK Project, Yetim İlaç Olan Nitisinonun Bsa İle Etkileşiminin Spektroflorimetrik Olarak İncelenmesi Ve İdrarda Tayininin Gerçekleştirilmesi, 2023 - 2024

Şatana Kara H. E., Bilkay M., Project Supported by Higher Education Institutions, Fenilalanin Kaplı Bakır Nanokümelerin Sentezi ve Kanser İlaçlarının DNA ile Etkileşimlerinin Belirlenmesi İçin Floresant Prob Olarak Kullanımı, 2022 - 2024

## **Tasks In Event Organizations**

Erdoğan Orhan İ., Mancak M., BİLKAY M., IV. Ulusal Eczacılık Eğitimi ve Akreditasyon Kongresi, Scientific Congress, Ankara, Turkey, Mart 2024

## **Metrics**

Publication: 13

Citation (Scopus): 5

H-Index (Scopus): 1

## **Congress and Symposium Activities**

3th International Gazi Pharma Symposium Series, GPSS 21, Attendee, Ankara, Turkey, 2021

13th Int. Symp. on Pharm. Sciences, Attendee, Ankara, Turkey, 2021

4th INTERNATIONAL CONGRESS ON BIOSENSORS, Audience, Çanakkale, Turkey, 2019