

## Dr. Öğr. Üyesi GÜLAY AKYÜZ

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Publons / Web Of Science ResearcherID: JFA-4816-2023

ScopusID: 56785725400

Yoksis Araştırmacı ID: 43259

### Eğitim Bilgileri

Doktora, Recep Tayyip Erdoğan Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, Türkiye 2013 - 2018

Yüksek Lisans, Recep Tayyip Erdoğan Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2010 - 2013

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Yaptığı Tezler

Doktora, "Yeni 2,3-Disübstitüe Kinazolin-4(3H)-on Türevi Bileşiklerin Sentezi ve Biyolojik Özelliklerinin İncelenmesi ,  
Recep Tayyip Erdoğan Üniversitesi, Kimya, Kimya, 2018

Yüksek Lisans, karaca mersini solungacından karbonik anhidrazın karakterizasyonu, Recep Tayyip Erdoğan Üniversitesi,  
Kimya, Biyokimya, 2013

### Araştırma Alanları

Kimya, Organik Kimya, Temel Bilimler

### Akademik Unvanlar / Görevler

Dr. Öğr. Üyesi, Recep Tayyip Erdoğan Üniversitesi, Fen Edebiyat Fakültesi, Kimya Bölümü, 2023 - Devam Ediyor

### Akademik İdari Deneyim

### Verdiği Dersler

organik reaksiyon mekanizmalarına giriş, Lisans, 2021 - 2022

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

- I. **Synthesis and Characterization of Some New 2,3-Disubstituted Quinazolin-4(3H)-one Compounds, Investigation of Urease, and AChE Inhibition Properties, Molecular, and Docking Study**  
Ünal Karaali N., Akyüz G., Emirik M.  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, cilt.50, sa.5, ss.1783-1799, 2024 (SCI-Expanded)
- II. **Urease Inhibition Activity Studies of Novel Azabenzimidazole-Derived Compounds**  
Akyüz G., Mentese E.  
RUSSIAN JOURNAL OF GENERAL CHEMISTRY, cilt.94, sa.9, ss.2432-2437, 2024 (SCI-Expanded)
- III. **Synthesis of novel quinazolinone-triheterocyclic hybrides as dual inhibition of urease and ache**  
MENTEŞE E., Güzel Y. Ü., AKYÜZ G., Karaali N. Ü.  
Journal of the Iranian Chemical Society, cilt.21, sa.9, ss.2425-2431, 2024 (SCI-Expanded)
- IV. **Synthesis and Urease Inhibition Activities of Some New Schiff Bases Benzimidazoles Containing Thiophene Ring**  
Akyüz G.  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, cilt.50, sa.3, ss.974-981, 2024 (SCI-Expanded)
- V. **A facile ultrasonic synthesis approach to 3-*H*-quinazolinethione derivatives and their urease inhibition studies**  
Çaliskan N., Akyüz G., Mentese E.  
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, cilt.199, sa.4, ss.293-298, 2024 (SCI-Expanded)
- VI. **Synthesis and Biological Evaluation of Coumarin-Amino Acid-Benzotriazole Conjugates**  
Mentese E., Caliskan N., Soekmen B., Akyuez G.  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, cilt.50, sa.1, ss.191-200, 2024 (SCI-Expanded)
- VII. **Synthesis of Novel Azabenzimidazole Bridged bis-Coumarin Compounds, Investigation of Pancreatic Lipase Inhibitory Properties, and Docking Studies**  
Akyuez G., Faiz Ö., EMİRİK M., Mentese E.  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, cilt.49, sa.SUPPL 1, ss.96-104, 2023 (SCI-Expanded)
- VIII. **Benzimidazolone-piperazine/triazole/thiadiazole/furan/thiophene conjugates: Synthesis, in vitro urease inhibition, and in silico molecular docking studies**  
Güven O., MENTEŞE E., EMİRİK M., Sökmen B. B., AKYÜZ G.  
ARCHIV DER PHARMAZIE, cilt.356, sa.11, 2023 (SCI-Expanded)
- IX. **Synthesis and Characterization of New Bistriazole Quinazoliniones and their Urease Inhibition Activities**  
Akyüz G., Mentese E.  
LETTERS IN ORGANIC CHEMISTRY, cilt.20, sa.3, ss.258-264, 2023 (SCI-Expanded)
- X. **Synthesis of New Coumarin-C<sub>3</sub> Benzimidazole Hybrids and Their Urease Inhibition Studies**  
Akyüz G., Mentese E.  
LETTERS IN ORGANIC CHEMISTRY, cilt.20, sa.9, ss.864-870, 2023 (SCI-Expanded)
- XI. **Synthesis and Docking Studies of Novel Benzimidazole Derivatives Containing Thiophene and Triazole Rings as Potential Urease Inhibitors**  
AKYÜZ G., EMİRİK M., Sokmen B. B., MENTEŞE E.  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, cilt.48, sa.SUPPL 1, 2022 (SCI-Expanded)
- XII. **Synthesis and urease inhibition studies of some new quinazolinones**  
AKYÜZ G.  
JOURNAL OF HETEROCYCLIC CHEMISTRY, cilt.58, sa.5, ss.1164-1170, 2021 (SCI-Expanded)
- XIII. **Synthesis of novel 2,3-disubstituted quinazolin-4(3H)-one derivatives containing hydrazone skeleton as potent urease inhibitors and their antimicrobial activities**  
Akyuz G., Beris F. Ş., Kahveci B., Mentese E.  
JOURNAL OF HETEROCYCLIC CHEMISTRY, cilt.56, sa.11, ss.3065-3072, 2019 (SCI-Expanded)

- XIV. **Synthesis, in vitro urease inhibition and molecular docking studies of some novel quinazolin-4(3H)-one derivatives containing triazole, thiadiazole and thiosemicarbazide functionalities**  
Mentese E., Akyuz G., Emirik M., Baltas N.  
BIOORGANIC CHEMISTRY, cilt.83, ss.289-296, 2019 (SCI-Expanded)
- XV. **Synthesis of some novel quinazolin-4(3H)-one hybrid molecules as potent urease inhibitors**  
Mentese E., Akyuz G., Yilmaz F., Baltas N., Emirik M.  
ARCHIV DER PHARMAZIE, cilt.351, sa.12, 2018 (SCI-Expanded)
- XVI. **Synthesis and molecular docking study of some novel 2,3-disubstituted quinazolin-4(3H)-one derivatives as potent inhibitors of urease**  
Akyuz G., Mentese E., Emirik M., Baltas N.  
BIOORGANIC CHEMISTRY, cilt.80, ss.121-128, 2018 (SCI-Expanded)
- XVII. **Synthesis and evaluation of alpha-glucosidase and pancreatic lipase inhibition by quinazolinone-coumarin hybrids**  
Mentese E., Karaali N., Akyuz G., Yilmaz F., Ulker S., KAHVECİ B.  
CHEMISTRY OF HETEROCYCLIC COMPOUNDS, cilt.52, sa.12, ss.1017-1024, 2016 (SCI-Expanded)
- XVIII. **Characterization and inhibition studies of carbonic anhydrase from gill of Russian Sturgeon Fish (Acipenser gueldenstaedtii)**  
Dincer B., Ekinci A. P., AKYUZ G., Kurtoglu I. Z.  
JOURNAL OF ENZYME INHIBITION AND MEDICINAL CHEMISTRY, cilt.31, sa.6, ss.1662-1665, 2016 (SCI-Expanded)
- XIX. **Inhibition of mammalian carbonic anhydrase isoforms I-XIV with a series of phenolic acid esters**  
MARESCA A., Akyuz G., OSMAN S. M., ALOTHMAN Z., SUPURAN C. T.  
BIOORGANIC & MEDICINAL CHEMISTRY, cilt.23, sa.22, ss.7181-7188, 2015 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Synthesis of Benzimidazole derivatives containing Schiff base exhibiting antiurease activities**  
AKYÜZ G.  
Cumhuriyet Science Journal, 2021 (Hakemli Dergi)
- II. **Microwave-Assisted Synthesis of Some Benzimidazole Derivatives Containing Imine Function**  
AKYÜZ G., YILMAZ F., MENTEŞE E.  
Avrupa Bilim ve Teknoloji Dergisi, cilt.2, sa.4, ss.123-127, 2015 (Hakemli Dergi)

## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

- I. **Synthesis and DPPH scavenging activities of some new benzimidazole derivatives**  
AKYÜZ G.  
4th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2021), 24 Kasım 2021
- II. **Synthesis and molecular docking study of some novel 2,3-disubstitutedquinazolin-4(3H)-one derivatives as potent inhibitors of urease**  
AKYÜZ G., MENTEŞE E.  
International Eurasian Conference on Science, Engineering and Technology, 22 - 23 Kasım 2018
- III. **Synthesis of some new quinazolinones containing thiadiazole ring with their anti-urease activity.**  
AKYÜZ G., MENTEŞE E.  
1st International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Türkiye, 22 - 23 Kasım 2018, ss.55
- IV. **Synthesis some novel 2,3-disubstituted quinazolin-4(3H)-one containing imin bond and some biological properties**  
AKYÜZ G.

1st International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Türkiye, 22 - 23 Kasım 2018, ss.45

V. **Synthesis of some new quinazolinones containing thiadiazole ring with their anti-urease activity**

AKYÜZ G., MENTEŞE E., BALTAŞ N., YILMAZ F.

International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Türkiye, 26 - 27 Nisan 2018

VI. **Synthesis of Some Benzimidazole Derivatives Containing Imine Function and Calculation of Their E/Z Isomers**

YILMAZ F., MENTEŞE E., AKYÜZ G., KARAALI N., KAHVECİ B.

INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE: ICAS 2017, 13 - 15 Ekim 2017

VII. **Synthesis of some new quinazolinones containing oxadiazole and furan rings with their anti-urease activity**

AKYÜZ G., MENTEŞE E., BALTAŞ N.

İVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Türkiye, 26 - 29 Nisan 2017, ss.602

VIII. **Synthesis and urease inhibition of quinazolinone-coumarin hybrid compounds**

AKYÜZ G., MENTEŞE E., YILMAZ F., BALTAŞ N.

İVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Türkiye, 26 - 29 Nisan 2017, ss.599

## Desteklenen Projeler

AKYÜZ G., çalışkan n., Yükseköğretim Kurumları Destekli Proje, Piperazin Halkası İçeren Yeni Azabenzimidazol Türevi Bileşiklerin Sentezi ve Bazı Enzim İnhibisyon Özelliklerinin İncelenmesi, 2024 - Devam Ediyor

AKYÜZ G., MENTEŞE E., Yükseköğretim Kurumları Destekli Proje, AzabenzimidazolonTiyadiazol ve

AzabenzimidazolonKumarin Hibrit Bileşiklerinin Sentezi ve Enzim İnhibisyon Özelliklerinin İncelenmesi, 2023 - 2024

AKYÜZ G., BİLGİN SÖKMEN B., Yükseköğretim Kurumları Destekli Proje, Tiyofen ve benzimidazol halkası içeren heterosiklik bileşiklerin sentezi ve biyolojik özelliklerinin incelenmesi, 2020 - 2021

AKYÜZ G., KARAALI N., Yükseköğretim Kurumları Destekli Proje, 2,3 Disübstitüe kinazolin-3on türevi bileşiklerin sentezi, karakterizasyonu ve bazı biyolojik özelliklerinin incelenmesi, 2018 - 2019

MENTEŞE E., BALTAŞ N., AKYÜZ G., Yükseköğretim Kurumları Destekli Proje, Kinazolinon çekirdeği içeren bazı heterosiklik bileşiklerin sentezi ve enzim inhibisyon özelliklerinin incelenmesi, 2017 - 2019

## Metrikler

Yayın: 29

Atf (WoS): 258

Atf (Scopus): 250

H-İndeks (WoS): 9

H-İndeks (Scopus): 9

## Kongre ve Sempozyum Katılımı Faaliyetleri

1st International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Katılımcı, Ankara, Türkiye, 2018

1st International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Katılımcı, ankar, Türkiye, 2018

İVEK 3. Uluslararası İlaç ve Eczacılık Kongresi, Katılımcı, İstanbul, Türkiye, 2017