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### Research Areas

Public Health, Pharmacology and Therapeutics, Pharmaceutical Chemistry

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

- I. **Cancer energy reprogramming and the immune responses.**  
Xingxing Y., Ouedraogo S. Y., Tarawally M., Tan Y., Bajinka O.  
Cytokine, vol.177, pp.156561, 2024 (SCI-Expanded)
- II. **Novel 2-(hydrazinocarbonyl)-3-phenyl-1H-indole-5-sulfonamide based thiosemicarbazides as potent and selective inhibitors of tumor-associated human carbonic anhydrase IX and XII: Synthesis, cytotoxicity, and molecular modelling studies**  
Demir Yazıcı K., Trawally M., Bua S., Öztürk-Civelek D., Akdemir A., Supuran C. T., Güzel Akdemir Ö.  
Bioorganic Chemistry, vol.144, 2024 (SCI-Expanded)
- III. **Thiosemicarbazone-benzenesulfonamide Derivatives as Human Carbonic Anhydrases Inhibitors: Synthesis, Characterization, and In silico Studies**  
Trawally M., DEMİR YAZICI K., Angeli A., Kaya K., Akdemir A., Supuran C. T., GÜZEL AKDEMİR Ö.  
Anti-Cancer Agents in Medicinal Chemistry, vol.24, no.9, pp.649-667, 2024 (SCI-Expanded)
- IV. **Dithiocarbamates and dithiocarbonates containing 6-nitrosaccharin scaffold: Synthesis, antimycobacterial activity and in silico target prediction using ensemble docking-based reverse virtual screening**  
Trawally M., Demir Yazıcı K., İpek Dingiş-Birgül S., Kaya K., Akdemir A., Güzel Akdemir Ö.  
Journal of Molecular Structure, vol.1277, 2023 (SCI-Expanded)
- V. **Mandelic acid-based spirothiazolidinones targeting M. tuberculosis: Synthesis, in vitro and in silico investigations**  
Trawally M., Demir-Yazici K., Dingiş Birgül S. İ., Kaya K., Akdemir A., Güzel-Akdemir Ö.  
BIOORGANIC CHEMISTRY, vol.121, 2022 (SCI-Expanded)
- VI. **Synthesis and antibacterial activity of new hybrid derivatives of 5-sulfamoyl-1H-indole and 4-thiazolidinone groups**  
Guzel-Akdemir O., Trawally M., Ozbek-Babuc M., Ozbek-Celik B., Ermut G., Ozdemir H.  
MONATSHEFTE FÜR CHEMIE, vol.151, pp.1443-1452, 2020 (SCI-Expanded)

### Articles Published in Other Journals

## ARTICLES PUBLISHED IN OTHER JOURNALS

- I. **Role of human carbonic anhydrase isoforms VA and VB in obesity: Implications, mechanisms, and therapeutic prospects**  
Kaçmaz M., Trawally M., GÜZEL AKDEMİR Ö.  
Journal of Research in Pharmacy, vol.28, no.3, pp.733-748, 2024 (ESCI)
- II. **Antiviral Properties of 5-Sulfamoyl-1H-Indole-Linked Spirothiazolidinone Derivatives: A Study on Human Parainfluenza Virus-2**  
Trawally M., YILMAZ F. N., ÖZBEK ÇELİK B., Akdemir A., GÜZEL AKDEMİR Ö.  
Journal of Research in Pharmacy, vol.28, no.1, pp.213-224, 2024 (ESCI)
- III. **Beyond the heart - Exploring the therapeutic potential of PDE3 inhibitors**  
Trawally M.  
Journal of Research in Pharmacy, vol.27, no.6, pp.2218-2241, 2023 (ESCI)
- IV. **Evaluation of new 2-hydroxy-N-(4-oxo-2-substituted phenyl-1,3-thiazolidin-3-yl)-2-phenylacetamide derivatives as potential antimycobacterial agents**  
GÜZEL AKDEMİR Ö., DEMİR YAZICI K., TRAWALLY M., DİNGİŞ BİRGÜL S. İ., Akdemir A.  
Organic Communications, vol.13, no.2, pp.33-50, 2020 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **4-Tiyazolin Türevleri: Kolon ve Meme Kanseri Tedavisi İçin Potansiyel Adaylar Olarak. Tümörle İlişkili hCA IX/XII İnhibitörleri**  
TRAWALLY M., GÜZEL AKDEMİR Ö.  
VII. Ulusal Farmasötik Kimya Kongresi, Ege University, İzmir, October 26-28, 2024., İzmir, Turkey, 26 October 2024
- II. **4-Thiazoline Derivatives: Tumor-Associated HCA IX/XII Inhibitors as Potential Candidates for Colon and Breast Cancer Therapy.**  
TRAWALLY M., GÜZEL AKDEMİR Ö.  
11th EFMC Young Medicinal Chemists' Symposium (EFMC-YMCS), Rome, Italy, September 5 - 6, 2024., Rome, Italy, 5 - 06 September 2024
- III. **Thione or Thiol: Structural confirmation of (E)-2-(1-(4-cyanophenyl)ethylidene)-N-(2-fluoro-4-sulfamoylphenyl)hydrazine-1-carbothioamide and carbonic anhydrase inhibition studies**  
Guliyeva L., M. T., GÜZEL AKDEMİR Ö.  
8th International Students Science Congress, Turkey, 27 April 2024
- IV. **Synthesis, FTIR spectrum, experimental and theoretical crystal studies, and carbonic anhydrase inhibition studies on 2-[(1H-Pyrrol-2-yl)methylidene]-N-(3-sulfamoylphenyl)hydrazine-1-carbothioamide**  
TRAWALLY M., DEMİR YAZICI K., KAYA K., AKDEMİR A., GÜZEL AKDEMİR Ö.  
12th International Drug Chemistry Conferences, Antalya, Turkey, 07 March 2024
- V. **Modification of SLC-0111 as Novel Carbonic Anhydrase Inhibitors**  
Guliyeva L., M. T., DEMİR YAZICI K., GÜZEL AKDEMİR Ö.  
8th International Conference Modern Trends in Physics, Baku, Azerbaijan, 30 November 2023
- VI. **Development of Selective Inhibitors for the Tumor-Associated Carbonic Anhydrases**  
AKDEMİR A., DEMİR YAZICI K., M. T., GÜZEL AKDEMİR Ö.  
8th International Conference Modern Trends in Physics, Baku, Azerbaijan, 30 November 2023
- VII. **Novel sulfa drug containing thiourea derivatives: Synthesis, molecular modelling and inhibition studies of pharmaceutically important carbonic anhydrase isoforms**  
M. T., DEMİR YAZICI K., AKDEMİR A., GÜZEL AKDEMİR Ö.  
10th International Drug Chemistry Conferences, Turkey, 10 - 13 March 2023
- VIII. **Molecular Modeling Studies on Dithiocarbamates and Dithiocarbonates Containing 6-nitrosaccharin Scaffold as antitubercular agents**  
DİNGİŞ BİRGÜL S. İ., M. T., DEMİR YAZICI K., GÜZEL AKDEMİR Ö., AKDEMİR A.  
10th International Drug Chemistry Conferences, Turkey, 10 March 2022

- IX. **Mandelic acid-based novel spirothiazolidinones: Synthesis, antimycobacterial activity and molecular modelling studies**  
M. T., DEMİR YAZICI K., DİNGİŞ BİRGÜL S. İ., GÜZEL AKDEMİR Ö., AKDEMİR A.  
13th International Symposium on Pharmaceutical Sciences, 22 - 24 June 2021
- X. **Synthesis and Antimycobacterial Activities of New Dithiocarbamates and Dithiocarbonates Containing 6-nitrosaccharin Scaffold**  
M. T., GÜZEL AKDEMİR Ö.  
9th International Drug Chemistry Conferences, Turkey, 8 - 11 April 2021
- XI. **Novel Thiosemicarbazones-Based Benzenesulfonamide hCAII Inhibitors: Synthesis, Biological Evaluation and Docking Studies**  
TRAWALLY M., DEMİR YAZICI K., GÜZEL AKDEMİR Ö., AKDEMİR A.  
3rd International African Conference on Current Studies, Benin, 27 - 28 February 2021
- XII. **Synthesis of Novel 2,5-Diketopiperazine And 2,6-Diketopiperazine Derivatives Deploying An Intramolecular C-N Cyclization Method and a Multicomponent Ugi Five-center, Four-Component Reaction**  
M. T., Dawidowski M.  
3rd International African Conference on Current Studies, Benin, 27 February 2021
- XIII. **The Ongoing Quest for Selective hCA IX/XII Inhibitors**  
GÜZEL AKDEMİR Ö., M. T., DEMİR YAZICI K., AKDEMİR A., Angeli A., Supuran C. T.  
8th International Drug Chemistry Conferences, Turkey, 27 February - 01 March 2020
- XIV. **Synthesis and Inhibitory Activity of 2- (Alkylidene/arylidene)-N-(2-(non)substituted-3/4-sulfamoylphenyl)Hydrazine Carbothioamide derivatives as Tumor-associated Carbonic Anhydrase hCA IX and hCA XII Inhibitors**  
M. T., DEMİR YAZICI K., GÜZEL AKDEMİR Ö.  
8th International Drug Chemistry Conferences, Turkey, 27 February - 01 March 2020

## Metrics

Publication: 24

Citation (WoS): 11

Citation (Scopus): 30

H-Index (WoS): 2

H-Index (Scopus): 4