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International Researcher IDs

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Publons / Web Of Science ResearcherID: HTM-7751-2023

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Education Information

Doctorate, Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık, Turkey 2024 - Continues

Postgraduate, Karadeniz Technical University, Sağlık Bilimleri Enstitüsü, Turkey 2021 - 2023

Dissertations

Postgraduate, *Epimedium pubigerum* (DC.) C. Moren & Decne Bitkisinin Biyolojik Etkinliklerinin İncelenmesi, Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık, 2023

Research Areas

Pharmacology and Therapeutics

Academic Titles / Tasks

Research Assistant, Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık, 2023 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- Dendritic, Water-Soluble, and Nonaggregated Axially Substituted Silicon Phthalocyanine as Potential Endometrial Anticancer Agent**
Keleş T., Seyhan G., Bıyıklıoğlu Z., Kolci K., Reis R., Barut B.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.38, no.12, 2024 (SCI-Expanded)
- Synthesis and cholinesterases inhibitory effects of water soluble zinc(II) and silicon(IV) phthalocyanines bearing (8-[3-(dimethylamino)phenoxy]octyl)oxy groups**
Usta B., SEYHAN G., AKKAYA D., BARUT B., BIYIKLIOĞLU Z., ÖZEL A.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.38, no.11, 2024 (SCI-Expanded)
- Phytochemical Analysis and Assessment of Antioxidant and Enzyme Inhibitory Activity of *Alchemilla pseudocartalinica* Juz.**
Uzunkaya Ç., Gökçaya İ., Akkaya D., Soral M., Seyhan G., Barut B., Yılmaz M. A., Renda G.
Chemistry & biodiversity, 2024 (SCI-Expanded)

- IV. **Non-aggregated and water soluble non-peripherally octa substituted Co(II) and Cu(II) phthalocyanines: Synthesis and α -glucosidase inhibitory effects**
BIYIKLIOĞLU Z., Bas H., SEYHAN G., BARUT B.
JOURNAL OF INORGANIC BIOCHEMISTRY, vol.257, 2024 (SCI-Expanded)
- V. **The synthesis and therapeutic effect of silicon(IV) phthalocyanines for colorectal cancer cells in photodynamic therapy by altering Wnt/13-catenin and apoptotic signaling**
BARUT B., BARUT E. N., YALÇIN C. Ö., Ali Y. A., AKKAYA D., SEYHAN G., ENGİN S., BIYIKLIOĞLU Z.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.453, 2024 (SCI-Expanded)
- VI. **Alpha-glucosidase inhibitory effects of flavonoids, phenolic acids and iridoids isolated from Vinca soneri: In vitro and in silico perspectives**
Uyanır E., Soral M., Seyhan G., Akkaya D., Sarı S., Barut B., Duman H., Renda G., Şöhretoğlu D.
CHEMISTRY AND BIODIVERSITY, no.x, pp.1-10, 2024 (SCI-Expanded)
- VII. **Effective α -glucosidase inhibitors based on polyphenolic benzothiazole heterocycles**
Sevimli E., SEYHAN G., AKKAYA D., SARI S., BARUT B., Koksoy B.
BIOORGANIC CHEMISTRY, vol.147, 2024 (SCI-Expanded)
- VIII. **Nonperipherally and peripherally substituted water-soluble magnesium (II) phthalocyanines and their DNA binding, nuclease activities**
BARUT B., SEYHAN G., KELEŞ T., Kulein B., BIYIKLIOĞLU Z.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.38, no.5, 2024 (SCI-Expanded)
- IX. **In vitro and in silico investigation of FDA-approved drugs to be repurposed against Alzheimer's disease**
Akkaya D., Seyhan G., Sari S., Barut B.
DRUG DEVELOPMENT RESEARCH, vol.85, no.3, 2024 (SCI-Expanded)
- X. **Evaluation of Hedera species as herbal medicine raw materials**
Gökkaya İ., Yazıcı N., Seyhan G., Cakir O., Yilmaz M. A., Barut B., Renda G.
Natural Product Research, 2024 (SCI-Expanded)
- XI. **AChE/BuChE inhibitory, DNA nuclease and cytotoxic properties of axially 5-[6-(benzyloxy)-2H-1,3-benzoxazin-3(4H)-yl]pentanoxy and 5-[6-(hexyloxy)-2H-1,3-benzoxazin-3(4H)-yl]pentanoxy substituted silicon phthalocyanines**
Biyıkhoğlu Z., Seyhan G., Öztürmen B. A., Kolci K., Reis R., Barut B.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.1003, 2023 (SCI-Expanded)
- XII. **Insights into the Biological Activity and Cytotoxic Mechanism of *Epimedium pubigerum***
SEYHAN G., AKKAYA D., KOLCI K., REIS R., YAZICI BEKTAŞ N., BARUT E. N., BARUT B.
CHEMISTRY & BIODIVERSITY, vol.20, 2023 (SCI-Expanded)
- XIII. **Novel different furoic acid-linked axial silicon phthalocyanines: Design, syntheses, cholinesterases, tyrosinase inhibitory, and DNA damage studies**
Yalazan H., AKKAYA D., Seyhan G., BARUT B., KANTEKİN H.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.37, no.4, 2023 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigate The Potential of Silicon(IV) Phthalocyanine as a Photodynamic Therapy Agent for A549 Cell Line**
Seyhan G., Barut B., Biyıkhoğlu Z., Yalçın C. Ö.
XXXI. Balkan Clinical Laboratory Federation - 35. Ulusal Biyokimya Kongresi, Antalya, Turkey, 28 October - 01 November 2024
- II. **Evaluation of Agricultural Waste Parts Of Cucurbita Species in Terms of Biological Activity Potential**
Sürmeneli A. O., Boğuşlu C., Seyhan G., Gökkaya İ., Barut B., Renda G.
14th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Turkey, 25 - 28 June 2024, pp.112
- III. **The Radical Scavenging and Cyclooxygenases Inhibitory Effects of Alchemilla Daghestanica Juz**

- Ortahisar M., Akkaya D., Seyhan G., Barut B., Yazıcı Bektaş N.
14th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Turkey, 25 - 28 June 2024, pp.376
- IV. **Suda Çözünebilen ve Agregasyon Göstermeyen Non-periferel Okta-sübtitü Kobalt(II), Bakır(II) Ftalosiyanınların Sentezi ve α -glukosidaz İnhibitör Etkilerinin İncelenmesi**
Baş H., Bıyıklıoğlu Z., Seyhan G., Barut B.
IX. Ulusal Anorganik Kimya Kongresi, Ankara, Turkey, 16 - 19 May 2024, pp.160
- V. **Multiple Biological Approach to Investigate The Effects of Silene Vulgaris (Moench) Grace**
Ashkar M., Seyhan G., Yazıcı Bektaş N.
14th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Turkey, 25 - 28 June 2024, pp.147
- VI. **Comparative Study of Hedera Species as a Phytopharmaceutical Resource**
Gökkaya İ., Yazıcı Bektaş N., Seyhan G., Barut B., Renda G.
The 10th International Mediterranean Symposium on Medicinal and Aromatic Plants, İstanbul, Turkey, 25 - 27 April 2024, pp.131
- VII. **DNA binding and nuclease properties of magnesium (II) phthalocyanines**
Barut B., Seyhan G., Kulein B., Keleş T., Bıyıklıoğlu Z.
6th International Eurasian Conference on Biological and Chemical Sciences, 11 - 13 October 2023, pp.48
- VIII. **In vitro investigation of biological activities of Epimedium pubigerum (DC.) Moren & Decne**
Seyhan G., Akkaya D., Reis R., Kolci K., Yazıcı Bektaş N., Barut E. N., Barut B.
International Multidisciplinary Symposium on Drug Research and Development - DRD 2023, İzmir, Turkey, 4 - 06 May 2023, pp.271
- IX. **Aksiyal disübtitü silisyum ftalosiyanınların sentezi ve asetil/butirilkolin esteraz enzimlerine karşı inhibisyon özellikleri**
Öztürmen B. A., Bıyıklıoğlu Z., Barut B., Seyhan G.
XXI. Kromatografi Kongresi, Aydın, Turkey, 14 - 16 June 2023, pp.43

Supported Projects

BARUT B., BIYIKLIOĞLU Z., BARUT E. N., SEYHAN G., ÖZTÜRME B. A., Project Supported by Higher Education Institutions, Piridin Grubu İçeren Silisyum Ftalosiyanınların Akciğer Kanseri Hücre Hattında in vitro FDT Özelliklerinin ve Apoptotik Yolakla İlişkisinin İncelenmesi, 2024 - Continues

BIYIKLIOĞLU Z., BARUT B., KELEŞ T., SEYHAN G., Project Supported by Higher Education Institutions, Morfolin Grupları İçeren Yeni Suda Çözünebilen Ftalosiyanınların Sentezi ve In Vitro Biyolojik Aktivitelerinin İncelenmesi, 2024 - Continues

Gökkaya İ., Renda G., Barut B., Sarı S., Çiçek Polat D., Seyhan G., Gençler Özkan A. M., TUBITAK Project, Erigeron annuus (L.) Pers. Toprak Üstü Kısımlarının Enzim İnhibitör ve DNA Hasarına Karşı Koruyucu Etkisinin ve Etkiden Sorumlu Bileşiklerinin Belirlenmesi, 2024 - 2025

Barut B., Bıyıklıoğlu Z., Yalçın C. Ö., Barut E. N., Seyhan G., Akkaya D., Altun Ali Y., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Endometrial kanser tedavisi için yeni FDT ajanların geliştirilmesi ve in vitro etkinliklerinin incelenmesi, 2024 - 2025

Memberships / Tasks in Scientific Organizations

Turkish Biochemical Society, Member, 2023 - Continues, Turkey

Scientific Refereeing

APPLIED ORGANOMETALLIC CHEMISTRY, Journal Indexed in SCI-E, November 2024
TURKISH JOURNAL OF BIOCHEMISTRY, Journal Indexed in SCI-E, September 2024
BMC Chemistry, National Scientific Refreed Journal, July 2024

TURKISH JOURNAL OF BIOCHEMISTRY, Journal Indexed in SCI-E, May 2024

TURKISH JOURNAL OF BIOCHEMISTRY, Journal Indexed in SCI-E, April 2024

Scientific Research / Working Group Memberships

Biopharmacy Research Group, Karadeniz Technical University, Turkey, <https://avesis.ktu.edu.tr/arastirma-grubu/bprg>, 2024 - Continues

Congress and Symposium Activities

XXXI. Balkan Clinical Laboratory Federation - 35. Ulusal Biyokimya Kongresi, Attendee, Antalya, Turkey, 2024

14th International Symposium on Pharmaceutical Sciences (ISOPS), Attendee, Ankara, Turkey, 2024

6th International Eurasian Conference of Biological and Chemical Sciences (EurasianBioChem), Attendee, Ankara, Turkey, 2023

International Multidisciplinary Symposium on Drug Research and Development (DRD) 2023, Attendee, İzmir, Turkey, 2023

Scholarships

2210-A Yurt İçi Genel Yüksek Lisans Burs Programı, TÜBİTAK, 2022 - 2023

Awards

Best Poster Award, Türk Biyokimya Derneği, October 2024