

Res. Asst. PhD Volkan AKYILDIZ

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International Researcher IDs

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Biography

Volkan AKYILDIZ was born in Artvin / TURKEY in 1990. He obtained B.Sc. and M.Sc. degrees from the department of Chemistry at Dokuz Eylül University in 2013 and 2015, respectively. He was appointed as research assistant at Atatürk University in 2018 and he started his Ph.D. in organic chemistry department at the same time.

Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 2020 - 2024

Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Kimya, Turkey 2013 - 2015

Undergraduate, Dokuz Eylul University, Fen Fakültesi, Kimya Bölümü, Turkey 2008 - 2013

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Other, NMR Yaz Okulu, Van YYÜ YÜSEM, 2018

Dissertations

Doctorate, 1,6-CONJUGATED ADDITION AND ADDITION-CYCLIZATION REACTIONS OF para-QUINONE METHIDES WITH NUCLEOPHILES, Ataturk University, Fen Fakültesi, Kimya, 2024

Postgraduate, Karbazol Amit Türevlerinin Sentezi, Dokuz Eylül Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, 2015

Research Areas

Chemistry, Organic Chemistry, Chemistry of Heterocyclic Compounds, Natural Sciences

Academic Titles / Tasks

Research Assistant, Ataturk University, Fen Fakültesi, Kimya, 2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Reductive alkyl-alkyl coupling from isolable nickel-alkyl complexes**
Al Zubaydi S., Waske S., AKYILDIZ V., Starbuck H. F., Majumder M., Moore C. E., Kalyani D., Sevov C. S.
Nature, vol.634, no.8034, pp.585-591, 2024 (SCI-Expanded)
- II. **A Ritter-Type Route to Diarylmethane Amides from *para*-Quinone Methides**
Akyildiz V., SARAÇOĞLU N.
ASIAN JOURNAL OF ORGANIC CHEMISTRY, vol.12, no.6, 2023 (SCI-Expanded)
- III. **Solvent-Mediated Tunable Regiodivergent C6-and N1-Alkylations of 2,3-Disubstituted Indoles with *p*-Quinone Methides**
Adris D., Taşkesenligil Y., Akyıldız V., Eşsiz S., Saraçoğlu N.
JOURNAL OF ORGANIC CHEMISTRY, vol.88, no.5, pp.3132-3147, 2023 (SCI-Expanded)
- IV. **Solvent-controlled regioselective C(5)-H/N(1)-H bond alkylations of indolines and C(6)-H bond alkylations of 1,2,3,4-tetrahydroquinolines with *para*-quinone methides**
AKYILDIZ V., Lafzi F., KILIÇ H., SARAÇOĞLU N.
ORGANIC & BIOMOLECULAR CHEMISTRY, vol.20, no.17, pp.3570-3588, 2022 (SCI-Expanded)
- V. **Synthesis of Murrayquinone-A Derivatives and Investigation of Potential Anticancer Properties**
Çağatay E., AKYILDIZ V., Ergun Y., AYAR KAYALI H.
CHEMISTRY & BIODIVERSITY, vol.18, no.11, 2021 (SCI-Expanded)
- VI. **Construction of an Octahydropyrido[3,4-*b*]carbazole Skeleton**
Oncuoğlu S., Ergun Y., Hizliates C. G., Akyildiz V.
RUSSIAN JOURNAL OF ORGANIC CHEMISTRY, vol.57, no.8, pp.1330-1335, 2021 (SCI-Expanded)
- VII. **Structural modification of ellipticine derivatives with alkyl groups of varying length is influential on their effects on human DNA topoisomerase II: a combined experimental and computational study**
Kuskucu M., Akyildiz V., Kulmány Á., Ergün Y., Zencir S., Zupko I., Durdagi S., Zaka M., Sahin K., Orhan H., et al.
Medicinal Chemistry Research, vol.29, pp.189-198, 2020 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis of Murrayquinone-A Derivatives and Investigation of Their Anticancer Activity**
Akyıldız V., Çağatay E., Ayar Kayalı H., Ergün M. Y.
6th International BAU Drug Design Congress, İstanbul, Turkey, 13 - 15 December 2018, pp.236-237
- II. **Efficient Synthesis of Diaminocyclooctane diols and Halogenated Derivatives**
AKYILDIZ V., SALAMCI E., KARAVAIZOĞLU U. N.
Uluslararası Katılımlı 4. Organik Kimya Kongresine (4th Organic Chemistry Congress (OrgChemTR-4)), 4 - 07 October 2018
- III. **Novel ellipticine derivatives: synthesis and effects on DNA cleavage mediated human topoisomerase II**
Kuşkucu M., Akyıldız V., R. Vann K., A. K., Ergün M. Y., Zencir S., Osheroff N., Topcu Z.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Aydın, Turkey, 3 - 08 September 2016, pp.119
- IV. **Karbazol Amit Türevlerinin Sentezi**
AKYILDIZ V., ÖNCÜOĞLU S., ERGÜN Y.
3.İlaç Kimyası, Üretimi, Teknolojisi Standardizasyon Kongresi, Antalya, Turkey, 19 - 22 March 2015, pp.650

Supported Projects

Akyıldız V., Saraçođlu N., TUBITAK Project, para-Kinon metit'lere 1,6-konjuge katılma reaksiyonları: diarilmetan amidler ve triarilmetanların sentezi, 2022 - 2023

TUBITAK Project, Murrayaquinone A Türevlerinin Sentezi Ve Antikanser Özelliklerinin Araştırılması, 2017 - 2019

TUBITAK Project, Mono- ve Bis-1,2,3-Triazol Halkası İçeren Sekiz Üyeli Siklitol Türevlerinin Sentezi, 2017 - 2019

TUBITAK Project, Yeni Eliptisin Türevlerinin Sentezi ve İnsan DNA Topoizomeraz II Enzimleri Üzerindeki Etkilerinin Karşılaştırmalı Kinetik Analizleri, 2015 - 2018

TUBITAK Project, Yeni Arp2/3 İnhibitörlerinin Keşfi: Sentez, İn Silico Dizayn ve İn Vitro Analiz, 2014 - 2016

Metrics

Publication: 11

Citation (WoS): 12

Citation (Scopus): 9

H-Index (WoS): 2

H-Index (Scopus): 1

Congress and Symposium Activities

Efficient Synthesis of Diaminocyclooctane diols and Halogenated Derivatives, Attendee, Antalya, Turkey, 2018

Novel ellipticine derivatives: synthesis and effects on DNA cleavage mediated human topoisomerase II, Attendee, Aydın, Turkey, 2016

Karbazol Amit Türevlerinin Sentezi, Attendee, Antalya, Turkey, 2015

Scholarships

2214-A - International Research Fellowship Programme for PhD Students, TUBITAK, 2023 - 2024

Non Academic Experience

Glodatech