



# BURÇİN TÜRKMENOĞLU

## ASSOC. PROF.

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Erzincan

### International Researcher IDs

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Publons / Web Of Science ResearcherID: ABG-4951-2020  
ScopusID: 56023863100  
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## Learning Knowledge

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Doctorate 2013 - 2019	Erciyes University, Fen Bilimleri Enstitüsü, Kimya, Turkey
Postgraduate 2011 - 2013	Erciyes University, Fen Bilimleri Enstitüsü, Kimya, Turkey
Undergraduate 2005 - 2009	Cukurova University, Fen-Edebiyat Fakültesi, Kimya, Turkey

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## Foreign Languages

English, B2 Upper Intermediate

## Certificates, Courses and Trainings

Vocational Training, Devlet Malını Koruma ve Tasarruf Tedbirleri Eğitimi, VERGİ DENETİM KURULU BAŞKANLIĞI, 2024  
Vocational Training, Eğitimcilerin Eğitimi Sertifika Programı, Erzincan Binali Yıldırım Üniversitesi, 2021  
Vocational Training, 18. İÜGEN INTERNATIONAL MOLECULAR BIOLOGY AND GENETICS WINTER SCHOOL, İstanbul Üniversitesi, 2021  
Occupational Health and Safety, İş Sağlığı ve Güvenliği, Erzincan Binali Yıldırım Üniversitesi, 2020  
Other, Computer Aided Drug Design, Sanko Üniversitesi, 2017  
Other, Chemometric Course Programme, Ankara Üniversitesi, 2015

Other, Bilgisayar Destekli İlaç Tasarımı Çalıştayı, Atatürk Üniversitesi, 2011  
Other, Yüksek Başarımlı Hesaplama ve Paralel Programlama Yaz Okulu, İTÜ, 2011

## Dissertations

Doctorate, TİYAZOL, 2-HİDROKSİDİARİLAMİT VE PİRİMİDİN TÜREVLERİ ÜZERİNDE MCET METODU VE MOLEKÜLER DOCKİNG ÇALIŞMALARI, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, 2019

Postgraduate, BENZODİAZEPİN GABAA RESEPTÖRÜNDE FLAVONOİD BAĞLANMALARININ MCET METODUYLA 4D-QSAR İNCELENMESİ, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, 2013

## Academic Titles / Tasks

Associate Professor 2023 - Continues	Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
Assistant Professor 2019 - 2023	Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
Research Assistant 2010 - 2019	Erciyes University, Fen Bilimleri Enstitüsü, Kimya

## Supported Projects

- Somtürk Yılmaz B., Türkmenoğlu B., Project Supported by Higher Education Institutions, Lavandula Stoechasekstraktı ile CuII ZnII ve CoII Hibrit Nanoçiçeklerin Biyosentezi Antikanser Aktivitesinin Belirlenmesi ve Moleküler Docking Çalışmaları, 2024 - 2026
- Somtürk Yılmaz B., Türkmenoğlu B., Project Supported by Higher Education Institutions, ÜrikazKatalaz Metal Fosfat Hibrit Nanoçiçek Sentezi, Karakterizasyonu, Tekstil Boya Gideriminde kullanılması ve Moleküler Docking Çalışmaları, 2023 - 2025
- Burmaoğlu S., Türkmenoğlu B., Algül Ö., Urhan Küçük M., Terzi M. Y., Doğan S., TÜBİTAK Project, Tirozin kinaz inhibitör potansiyeli olan yeni pirazolo[3,4-d]pirimidin-kalkon hibrit bileşiklerinin tasarlanması, sentezi ve in vitro antikanser aktivitelerinin araştırılması, 2022 - 2025
- Karataş Ö. F., Algül Ö., Türkmenoğlu B., Burmaoğlu S., Anıl D., Ceylan O., TÜBİTAK Project, Pofut1 İnhibitörü Olabilecek Bileşiklerin Tasarımı, Sentezi Ve Etkinliklerinin Değerlendirmesi İle Antikanser Ve Anti-Anjiyojenik Potansiyellerinin In Vitro Ve In Vivo Modellerle İncelenmesi, 2022 - 2025
- İlhan Ceylan B., Bölükbaşı Yalçınkaya O., Aydın A., Türkmenoğlu B., Aykaç O., Emergency R&D Project of Group A, Oksovanadyum(IV) tiyosemikarbazon türevlerinin akciğer ve kemik kanseri ve diyabet üzerindeki biyolojik etkisinin in vitro, in silico ve DFTyöntemleriyle araştırılması, 2023 - 2024
- Çakır M., Türkmenoğlu B., Aydın A., Project Supported by Higher Education Institutions, TRPV4 Kanal Agonisti GSK1016790A ve Antagonisti HC067047nin Antikanser Etkilerinin In Vitro Olarak Değerlendirilmesi, 2023 - 2024
- Aydın D., Aydın A., Kara A., Türkmenoğlu B., Project Supported by Higher Education Institutions, Melatonin Borik asit ve Kannabidiol Tetrahidrokannabinol Kannabinoidlerinin Osteomiyelit Tedavisindeki Biyolojik Etkinliğinin İn vitro İncelenmesi, 2022 - 2024
- ÇOLAK S., ALGÜL Ö., TÜRKMEÑOĞLU B., GÜRİSOY Ş., Project Supported by Higher Education Institutions, Benzazol Türevi Bileşiklerin Sentezi ve mTOR İnhibitör Aktivitelerinin Araştırılması, 2022 - 2024
- Küpeli M., Aydın A., Türkmenoğlu B., Çağan E., Project Supported by Higher Education Institutions, Melatonin Sisplatin ve Kenevir Kannabinoidlerinin (Kannabidiol Tetrahidrokannabinol) İnsan Akciğer Kanseri Hücre Hattı

Üzerine Sitotoksik ve Apoptotik Etkilerinin Araştırılması, 2022 - 2024

10. Kúpeli M., Aydın A., Türkmenođlu B., Çakır M., Project Supported by Higher Education Institutions, Küçük Molekül İnhibitörü 8brCADPRnin İnsan Akciđer Kanseri Hücre Hattı Üzerine Sitotoksik ve Apoptotik Etkilerinin Araştırılması, 2022 - 2024
11. Aydın A., Kara A., Türkmenođlu B., Aydın D., Project Supported by Higher Education Institutions, Melatonin ve Kenevir Kannabinoidlerinin (Kannabidiol, TetrahidrokannabinoI) Osteonekroz Tedavisindeki Biyolojik Etkinliđinin İn vitro İncelenmesi, 2022 - 2024
12. ALGÜL Ö., TÜRKMEÑOĐLU B., POLAT M. F., ÖZKEMAHLI K. G., GÜRSOY Ş., Project Supported by Higher Education Institutions, Yeni Kalkon Hibrit Türevlerinin Tasarımı Sentezi ve Meme Kanseri Hücreleri Üzerinde Olası Antiproliferatif Etkilerinin Araştırılması, 2021 - 2024
13. Aydın A., Karadađ A., Türkmenođlu B., Yılmaz G., Kúpeli M., Project Supported by Higher Education Institutions, Küçük Hücreli Dışı Akciđer Kanseri Tedavisinde Kullanılan Kemoterapötiklerin Nanoformüle Edilmiş Kenevir Kaynaklı Fitokannabinoidlerin Kullanımıyla Desteklenmesi, 2021 - 2024
14. Türkmenođlu B., Bozbey İ., Karaköy Z., Project Supported by Higher Education Institutions, Moleküler Modelleme Çalıřmalarıyla Yeni Piperazin Türevlerinin Kuantum Kimyasal Hesaplamalarının Yapılması Sentezi ve Spektral Karakterizasyonunun İncelenmesi, 2021 - 2023
15. Türkmenođlu B., Güzel Y., Project Supported by Higher Education Institutions, CTP Çubukları Arasında Dörtgen Bađlantı Elemanı DŞE Modülü Kullanarak Portatif Sera Konstrüksiyon Üretimi, 2016 - 2019
16. Türkmenođlu B., Güzel Y., Project Supported by Higher Education Institutions, TİYAZOL, 2-HİDROKSİDİARİLAMİT VE PİRİMİDİN TÜREVLERİ ÜZERİNDE MCET METODU VE MOLEKÜLER DOCKİNG ÇALIřMALARI, 2016 - 2019

## Awards

1. Türkmenođlu B., Ekev-2024 Akademik Bilim Sanat Ve Spor Ödülleri, Ekev-2024 Akademik Bilim Sanat Ve Spor Ödülleri, May 2024
2. Türkmenođlu B., TÜBİTAK YAYIN TEŞVİK, Tübitak, December 2023
3. Türkmenođlu B., Ekev-2023 Akademik Bilim Sanat Ve Spor Ödülleri TEMEL BİLİMLER, Ekev-2023 Akademik Bilim Sanat Ve Spor Ödülleri, October 2023
4. Türkmenođlu B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ 3, Tübitak Yayın Teşvik Ödülü, February 2023
5. Türkmenođlu B., Aydın A., 1. ARGE PROJE PAZARI MANSİYON ÖDÜLÜ, 1.Arge Proje Pazarı, May 2022

## Jury Memberships

Post Graduate, Post Graduate, Erciyes Üniversitesi, June, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erzincan Binali Yıldırım Üniversitesi, November, 2023

Doctorate, Doctorate, Erciyes Üniversitesi, February, 2022

Post Graduate, Post Graduate, Erciyes Üniversitesi, August, 2021

Doctorate, Doctorate, Erciyes Üniversitesi, February, 2020

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

1. **Substituted bisbenzimidazole derivatives as multiple targeting agents to treat Alzheimer's disease, diabetes, and microbial infections**  
Algul O., Mete B., TÜRKMEÑOĐLU B., Sağlantas R., ALAGÖZ M. A., Dogen A., GÜLÇİN İ., BURMAOĐLU S.  
Journal of Molecular Structure, vol.1323, 2025 (SCI-Expanded)
2. **Synthesis, characterization, cytotoxic activity, and molecular docking of 3,4-diaminobenzophenone-Cu<sub>2</sub>NFs and its major components-based nanoflowers**

- Somturk-Yilmaz B., Altiparmak A., Turkmenoglu B., Akkoc S.  
JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, vol.43, pp.1-16, 2024 (SCI-Expanded)
3. **Design, synthesis of antipyrine-based Schiff bases and investigation of their cholinesterase and carbonic anhydrase activities by in vitro and in silico approaches**  
Çakmak R., Başaran E., Türkmenoğlu B., Şentürk M.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1322, pp.1-11, 2024 (SCI-Expanded)
  4. **Transition metal complexes of sulfonamide-based Schiff base ligand: Synthesis, Characterization, A Biological assessment, DFT, and ADME studies**  
Sarioğlu A. O., Türkmenoğlu B., Kahraman D. T., Güler S., Sürmelihindi B., Morcali M. H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1325, pp.1-12, 2024 (SCI-Expanded)
  5. **Novel europium(III), terbium(III), and gadolinium(III) Schiff base complexes: Synthesis, structural, photoluminescence, antimicrobial, antioxidant, and molecular docking studies**  
Sogukomerogullari H. G., Başaran E., Kepekçi R. A., Türkmenoğlu B., Sarioğlu A. O., Köse M.  
POLYHEDRON, vol.264, pp.1-16, 2024 (SCI-Expanded)
  6. **Synthesis of newly designed hydrazones, in vitro and in silico studies, and Structure-Activity Relationship**  
Sıcak Y., Başaran E., Türkmenoğlu B., Öztürk M.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1321, pp.1-15, 2024 (SCI-Expanded)
  7. **Exploring new 5-Nitroimidazole Derivatives as Potent Acetylcholinesterase and Butyrylcholinesterase Enzyme Inhibitors**  
Gursoy S., Satici D., Kuzu B., Turkmenoglu B., Dilek E., Algul Ö.  
Chemistry and Biodiversity, vol.21, no.10, 2024 (SCI-Expanded)
  8. **Synthesis of Sulfonamide-Based Schiff Bases as Potent Anticancer Agents: Spectral Analyses, Biological Activity, Molecular Docking, ADME, DFT, and Pharmacophore Modelling Studies**  
Başaran E., Çakmak R., Türkmenoğlu B., Akkoc S., Köprü S.  
CHEMISTRY AND BIODIVERSITY, vol.21, pp.1-17, 2024 (SCI-Expanded)
  9. **Determination of the Interactions of a Schiff Base with Different Targets via Molecular Docking and Cytotoxic Activity Studies**  
Türkmenoğlu B., Bayar İ., Kökbudak Z., Akkoc S.  
JOURNAL OF THE INDIAN CHEMICAL SOCIETY, vol.101, pp.1-8, 2024 (SCI-Expanded)
  10. **Histopathological, Antioxidant, and Enzyme Activity of Boronic Incorporated Catechin Compound: Screening of Bioactivity with Molecular Docking Studies**  
Paşa S., Atlan M., Temel H., Türkmenoğlu B., Ertuş A., Okan A., Yilmaz S., Ateş Ş.  
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, vol.50, no.4, pp.1446-1465, 2024 (SCI-Expanded)
  11. **Synthesis and evaluation of di-heterocyclic benzazole compounds as potential antibacterial and anti-biofilm agents against Staphylococcus aureus.**  
Aktekin M. B., Oksuz Z., Turkmenoglu B., Istifli E. S., Kuzucu M., Algul O.  
Chemical biology & drug design, vol.104, no.2, 2024 (SCI-Expanded)
  12. **Synthesis, Characterization, Cytotoxic Activity Studies of N1-phenylbenzene-1,2-diamine @CuhNFs and 1,2-phenylenediamine@CuhNFs, and Molecular Docking Calculations of Their Ligands**  
Somturk-Yilmaz B., Turkmenoglu B., Akkoc S.  
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.34, no.6, pp.1-13, 2024 (SCI-Expanded)
  13. **Investigation of Newly Synthesized Fluorinated Isatin-Hydrazones by In Vitro Antiproliferative Activity, Molecular Docking, ADME Analysis, and e-Pharmacophore Modeling**  
Başaran E., Köprü S., Akkoç S., Türkmenoğlu B.  
ACS OMEGA, vol.9, no.23, pp.1-16, 2024 (SCI-Expanded)
  14. **Synthesis of new sulfonamide derivatives: Investigation of their interactions with carbonic anhydrase and cholinesterase enzymes by in vitro and in silico evaluations**  
Kurban M. G., Çakmak R., Başaran E., Türkmenoğlu B., Şentürk M.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1315, pp.1-30, 2024 (SCI-Expanded)

15. **Hydrazide-Bridged Pyridazines for Cholinesterase Inhibitors: Synthesis, Characterizations, In Silico, and In Vitro Evaluation**  
Gürsoy Ş., Taşkor Önel G., Türkmenoğlu B., Bozbey Merde İ., Dilek E., Özsoy C., Algül Ö.  
CHEMISTRYSELECT, vol.9, no.e202400085, pp.1-12, 2024 (SCI-Expanded)
16. **Biological and in Silico Studies on the Benzimidazole-Based Compounds**  
Bayar I., Turkmenoglu B., Akkoc S.  
CHEMISTRY AFRICA-A JOURNAL OF THE TUNISIAN CHEMICAL SOCIETY, vol.7, pp.1-10, 2024 (SCI-Expanded)
17. **Design, spectroscopic characterization, in silico and in vitro cytotoxic activity assessment of newly synthesized thymol Schiff base derivatives**  
Başaran E., Çakmak R., Sahin D., KÖPRÜ S., TÜRKMENOĞLU B., AKKOÇ S.  
Journal of Biomolecular Structure and Dynamics, 2024 (SCI-Expanded)
18. **Chalcone-based imidazo[2,1-b]thiazole derivatives: synthesis, crystal structure, potent anticancer activity, and computational studies**  
Dadou S., Altay A., Baydere C., Anouar E. H., Türkmenoğlu B., Koudad M., Dege N., Oussaid A., Benchat N., Karrouchi K.  
JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, vol.41, pp.1-14, 2024 (SCI-Expanded)
19. **Synthesis, Characterization, Investigation of Anticancer Activity and Molecular Docking Studies of N2O2 Type Schiff Base Ligand and Metal Complexes**  
Türkmenoğlu M., Tuna Yıldırım S., Altay A., Türkmenoğlu B.  
CHEMISTRYSELECT, vol.9, no.4, pp.1-8, 2024 (SCI-Expanded)
20. **Clustering of atoms relative to vector space in the Z-matrix coordinate system and 'graphical fingerprint' analysis of 3D pharmacophore structure**  
Kızılcan D. Ş., Güzel Y., Türkmenoğlu B.  
MOLECULAR DIVERSITY, vol.28, pp.1-18, 2024 (SCI-Expanded)
21. **Novel Pyrazole-Based Benzofuran Derivatives as Anticancer Agents: Synthesis, Biological Evaluation, and Molecular Docking Investigations**  
Ameziane El Hassani I., Altay A., Karrouchi K., Yeniçeri E., Türkmenoğlu B., Assila H., Boukharsa Y., Ramli Y., Ansar M.  
Chemistry and Biodiversity, vol.20, no.11, 2023 (SCI-Expanded)
22. **Boronic Modified Quercetin Molecules: Synthesis and Biological Investigations with Molecular Docking Verification**  
Temel H., Paşa S., Atlan M., Türkmenoğlu B., Ertaş A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1288, pp.1-10, 2023 (SCI-Expanded)
23. **New Fluoro- and Trifluoromethyl-Substituted Trimethoxychalcones as Anticancer Agents: Synthesis, Bio-evaluation, and Computational Studies**  
Polat M. F., Anil D. A., Ozkemahli G., Turkmenoglu B., Hepokur C., Burmaoglu S., Algul O.  
ChemistrySelect, vol.8, no.32, 2023 (SCI-Expanded)
24. **Focusing on New Piperazinyl-methyl-3(2H)pyridazinone Based Derivatives: Design, Synthesis, Anticancer Activity and Computational Studies**  
Merde İ., Taşkor Önel G., Akkoç S., Karaköy Z., Türkmenoğlu B.  
ChemistrySelect, vol.8, no.25, 2023 (SCI-Expanded)
25. **In silico and biological activity evaluation of quercetin-boron hybrid compounds, anti-quorum sensing effect as alternative potential against microbial resistance**  
Temel H., Atlan M., TÜRKMENOĞLU B., Ertaş A., Erdönmez D., Çalışkan U. K.  
Journal of Trace Elements in Medicine and Biology, vol.77, 2023 (SCI-Expanded)
26. **Diastereoselective Synthesis, Characterization, Investigation of Anticancer, Antibacterial Activities, In Silico Approaches and DNA/BSA Binding Affinities of Novel Pyrimidine-Sugar Derivatives**  
Kahriman N., Serdaroğlu V., Aydın A., Türkmenoğlu B., Usta A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1277, pp.1-15, 2023 (SCI-Expanded)
27. **New pyrimidine-N-β-D-glucosides: synthesis, biological evaluation, and molecular docking investigations**

- Kahrıman N., Peker K., Serdarođlu V., Aydın A., Türkmenođlu B., Usta A., Yaylı N.  
TURKISH JOURNAL OF CHEMISTRY, vol.47, no.2, pp.476-494, 2023 (SCI-Expanded)
28. **Effect of fermented concentrated potato protein on milk yield and fertility parameters in dairy cows in the prepartum and postpartum periods**  
Aktuđ E., Baytok E., Türkmenođlu B.  
LARGE ANIMAL REVIEW, vol.29, no.2, pp.51-57, 2023 (SCI-Expanded)
29. **N-(benzazol-2-yl)-2-substituted phenylacetamide derivatives: design, synthesis and biological evaluation against MCF7 breast cancer cell line**  
Zoatier B., Yildirim M., Alagoz M. A., Yetkin D., Turkmengo lu B., Burmao glu S., Alđu l. Ö.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1285, pp.1-10, 2023 (SCI-Expanded)
30. **Design, Synthesis, Cytotoxic Activity, and In Silico Studies of New Schiff Bases Including Pyrimidine Core**  
KARATAŞ H., Aydın M., TÜRKMEÑOĐLU B., AKKOÇ S., Sahin O., KÖKBUDAK Z.  
ChemistrySelect, vol.8, no.6, 2023 (SCI-Expanded)
31. **Biological evaluations and computational studies of newly synthesized thymol-based Schiff bases as anticancer, antimicrobial and antioxidant agents**  
Sahin D., Kepekci R. A., Türkmenođlu B., Akkoç S.  
Journal of Biomolecular Structure and Dynamics, 2023 (SCI-Expanded)
32. **(p-Chlorophenyl)-3(2H)pyridazinone Derivatives: Synthesis, in Silico, and AChE/BChE Inhibitory Activity**  
Bozbey İ., Taşkor Önel G., Türkmenođlu B., Gürsoy Ş., Dilek E.  
CHEMISTRYSELECT, vol.7, no.38, pp.1-7, 2022 (SCI-Expanded)
33. **Pyridazinones containing the (4-methoxyphenyl)piperazine moiety as AChE/BChE inhibitors: design, synthesis, in silico and biological evaluation**  
Bozbey İ., Taşkor Önel G., Türkmenođlu B., Gürsoy Ş., Dilek E.  
MEDICINAL CHEMISTRY RESEARCH, vol.31, no.11, pp.2021-2031, 2022 (SCI-Expanded)
34. **3(2H)-pyridazinone derivatives: Synthesis, in-silico studies, structure-activity relationship and in-vitro evaluation for acetylcholinesterase enzyme inhibition**  
Çöl Ö. F., BOZBEY İ., TÜRKMEÑOĐLU B., Uysal M.  
Journal of Molecular Structure, vol.1261, 2022 (SCI-Expanded)
35. **Investigation of novel compounds via in silico approaches of EGFR inhibitors as anticancer agents**  
Türkmenođlu B.  
JOURNAL OF THE INDIAN CHEMICAL SOCIETY, vol.99, pp.100601, 2022 (SCI-Expanded)
36. **Design, synthesis, anticancer evaluation and molecular docking studies of new imidazo [2, 1-b] thiazole -based chalcones**  
Dadou S., Altay A., Koudad M., Türkmenođlu B., Yeniçeri E., Çađlar S., Allali M., Oussaid A., Benchat N., Karrouchi K.  
Medicinal Chemistry Research, vol.31, no.8, pp.1369-1383, 2022 (SCI-Expanded)
37. **Synthesis of (p-tolyl)-3(2H)pyridazinone Derivatives as Novel Acetylcholinesterase Inhibitors**  
Bozbey İ., Taşkor Önel G., Türkmenođlu B., Gürsoy Ş., Dilek E., Özçelik A. B., Uysal M.  
ChemistrySelect, vol.7, no.28, 2022 (SCI-Expanded)
38. **Dicyanoargentate(I)-based complexes induced in vivo tumor inhibition by activating apoptosis-related pathways**  
Aydın A., Korkmaz N., Kısa D., Türkmenođlu B., Karadađ A.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.36, pp.1-10, 2022 (SCI-Expanded)
39. **Design, synthesis and in vitro antiproliferation activity of some 2-aryl and -heteroaryl benzoxazole derivatives**  
Kuzu B., Hepokur C., Turkmengo lu B., Burmao glu S., Alđu l. O.  
Future Medicinal Chemistry, vol.14, no.14, pp.1027-1048, 2022 (SCI-Expanded)
40. **Design, synthesis, biological evaluation and molecular docking studies of novel 1H-1,2,3-Triazole derivatives as potent inhibitors of carbonic anhydrase, acetylcholinesterase and aldose reductase**  
Anil D. A., Aydın B. O., Demir Y., TÜRKMEÑOĐLU B.

- Journal of Molecular Structure, vol.1257, 2022 (SCI-Expanded)
41. **Comparison of the performance of different “local reactive descriptors” in 3D-QSAR analysis of enantioselective molecules**  
Kızılcan D. Ş., TÜRKMEÑOĞLU B., GÜZEL Y.  
Structural Chemistry, vol.33, no.2, pp.433-443, 2022 (SCI-Expanded)
  42. **Conventional and microwave prompted synthesis of aryl(alkyl)azole oximes, 1H-NMR spectroscopic determination of E/Z isomer ratio and HOMO-LUMO analysis**  
BOZBEY İ., USLU H., TÜRKMEÑOĞLU B., ÖZDEMİR Z., KARAKURT A., Levent S.  
Journal of Molecular Structure, vol.1251, 2022 (SCI-Expanded)
  43. **A bis indole analog molecule fluorescent probe for living cell staining**  
BEŞER B. M., ALTAY A., Talaz O., TÜRKMEÑOĞLU B.  
Journal of Photochemistry and Photobiology A: Chemistry, vol.424, 2022 (SCI-Expanded)
  44. **Single Crystal, DFT and Docking Studies of a Benzimidazolium Salt**  
AKKOÇ S., Yavuz S., TÜRKMEÑOĞLU B., İLHAN İ. Ö., AKKURT M.  
Crystallography Reports, vol.65, no.7, pp.1173-1178, 2020 (SCI-Expanded)
  45. **Investigation of inhibitory activity of monoamine oxidase A with 4D-QSAR using Fukui indices identifier**  
Türkmenoğlu B., Güzel Y., Su E. M., Kızılcan D. Ş.  
Materials Today Communications, vol.25, 2020 (SCI-Expanded)
  46. **The use of the Klopman index as a new descriptor for pharmacophore analysis on strong aromatase inhibitor flavonoids against estrogen-dependent breast cancer**  
Kızılcan D. S., Türkmenoğlu B., Güzel Y.  
Structural Chemistry, vol.31, no.4, pp.1339-1351, 2020 (SCI-Expanded)
  47. **Synthesis of novel heterocyclic compounds containing pyrimidine nucleus using the Biginelli reaction: Antiproliferative activity and docking studies**  
Yavuz S., Akkoç S., Türkmenoğlu B., Sarıpınar E.  
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8. **Discover of Potential Inhibitors on Cyclooxygenase-2 by High-Throughput Virtual Screening, ADME and Molecular Docking Studies**  
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9. **Fingerprint Generation by Dimension Reduction from Clustering Methodology of Atoms Based on 3D Structural Similarity for Pha Modelling**  
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10. **Structure Based Virtual Screening of Potential Isoform Selective Phosphoinositide 3-Kinase (PI3K) Alpha Inhibitors**  
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## QSAR Analysis

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## Academic and Administrative Experience

2024 - Continues	<b>Member of the Senate</b>	Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2024 - Continues	<b>Fakülte Öz Değerlendirme Komitesi</b>	Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2024 - Continues	<b>Member of Unit Quality Commission</b>	Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2024 - Continues	<b>Department Academic Incentive Evaluation Commission Chairperson</b>	Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2024 - Continues	<b>Vice Dean</b>	Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2023 - Continues	<b>Fakülte Kurulu Üyesi</b>	Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2023 - Continues	<b>EĞİTİM KOMİSYONU</b>	Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2023 - Continues	<b>Kriter Değerlendirme Alt Komisyonu</b>	Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2021 - 2024	<b>MEZUNİYET PROJESİ DEĞERLENDİRME KOMİSYONU</b>	Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2021 - 2024	<b>Yatay Geçiş-Denklik ve İntibak Alt Komisyonu</b>	Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2021 - 2024	<b>AKREDİTASYON ALT KOMİSYONU ÖRGÜTLENME VE YÖNETİM</b>	Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2021 - 2023	<b>Öğrenci Değişim Programları Alt Komisyonu</b>	Erzincan Binali Yildirim University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü

2021 - 2023	<b>AKREDİTASYON ALT KOMİSYONU MALİ</b>	Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2021 - 2023	<b>KAYNAKLAR MUAYENE/KABUL, SAYIM VE HURDAYA AYIRMA KOMİSYONU</b>	Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2021 - 2021	<b>Sosyal ve Kültürel Etkinlikler Komisyonu</b>	Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2021 - 2021	<b>Bilimsel Çalışmalar Komisyonu</b>	Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2021 - 2021	<b>Mezuniyet Projesi Değerlendirme Komisyonu</b>	Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2021 - 2021	<b>Mezuniyet Projesi Değerlendirme Komisyonu</b>	Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2021 - 2021	<b>Eczacılık Fakültesi Akreditasyon Çalışma Komisyonu</b>	Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2021 - 2021	<b>Sayım Komisyonu</b>	Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2021 - 2021	<b>EczÇEP ve GEP Çalışma Komisyonu</b>	Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2021 - 2021	<b>Eczacılık Fakültesi Mezuniyet Komitesi (2020-2021 Eğitim-Öğretim Yılı)</b>	Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2020 - 2021	<b>Eczacılık Fakültesi Akreditasyon Çalışma Komisyonu Üyelerine</b>	Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2020 - 2021	<b>EczÇEP ve GEP Çalışma Komisyonu Üyelerine</b>	Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü
2020 - 2021	<b>Eczacılık Fakültesi Mezuniyet Komitesi Üyelerine</b>	Erzincan Binali Yıldırım University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri Bölümü

## Courses

Eczacılıkta Fizikokimyasal Kavramlar, Postgraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022

Uzmanlık Alan Dersi, Postgraduate, 2024 - 2025, 2023 - 2024, 2021 - 2022

Analitik Kimya 2, Undergraduate, 2023 - 2024

Danışmanlık, Postgraduate, 2024 - 2025

Analitik Kimya 2, Undergraduate, 2024 - 2025  
Analitik Kimya Uygulama 1, Undergraduate, 2023 - 2024, 2022 - 2023  
Analitik Kimya uygulama 2, Undergraduate, 2024 - 2025  
Bilgisayar Destekli İlaç Tasarımı, Postgraduate, 2023 - 2024, 2022 - 2023  
Eczacılıkta Güncel Kimya Konuları, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021  
Analitik Kimya Lab. 2, Undergraduate, 2023 - 2024  
Mezuniyet Projesi Dersi 2, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021  
Analitik Kimya 1, Undergraduate, 2022 - 2023  
Genel Kimya, Undergraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021  
İLAÇ TASARIMI 2, Doctorate, 2023 - 2024  
İlaç Tasarımı, Postgraduate, 2023 - 2024, 2022 - 2023  
IR Spektroskopisinde İleri Konular, Doctorate, 2023 - 2024, 2022 - 2023  
UZMANLIK ALAN DERSİ, Undergraduate, 2022 - 2023, 2021 - 2022  
Etkili Sunum Teknikleri, Undergraduate, 2022 - 2023  
Danışmanlık, Postgraduate, 2023 - 2024  
İlaç Tasarımında Güncel Yaklaşımlar, Postgraduate, 2022 - 2023, 2021 - 2022  
Mezuniyet Projesi Dersi 1, Undergraduate, 2023 - 2024, 2022 - 2023  
Laboratuvar güvenliği, Undergraduate, 2023 - 2024, 2022 - 2023  
UZMANLIK ALAN DERSİ, Postgraduate, 2023 - 2024  
Literatür Değerlendirmede Temel Yöntemler ve Araştırma Metodları, Postgraduate, 2023 - 2024, 2022 - 2023  
İlaç Tasarımı ve Moleküler Modelleme, Undergraduate, 2022 - 2023, 2021 - 2022  
Seminer, Postgraduate, 2022 - 2023, 2021 - 2022  
DANIŞMANLIK, Postgraduate, 2022 - 2023, 2021 - 2022  
Moleküler Modellemede Kullanılan Güncel Yöntemler, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
İlaç Tasarımında Güncel Yaklaşımlar, Postgraduate, 2021 - 2022  
Literatür Değerlendirmede Temel Yöntemler ve Araştırma Metodları, Postgraduate, 2021 - 2022  
Moleküler Modelleme, Postgraduate, 2020 - 2021  
Genel Kimya, Undergraduate, 2021 - 2022  
Mezuniyet Projesi Dersi 1, Undergraduate, 2021 - 2022, 2020 - 2021  
Kantitatif Yapı-Aktivite İlişkisi(QSAR), Undergraduate, 2021 - 2022, 2020 - 2021  
İlaç Tasarımı I, Postgraduate, 2021 - 2022  
Uzmanlık Alan Dersi, Postgraduate, 2021 - 2022  
Drug Design and Molecular Modeling, Undergraduate, 2020 - 2021, 2019 - 2020  
Danışmanlık, Postgraduate, 2021 - 2022

## Activities in Scientific Journals

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Editor, 2021 - Continues

## Scientific Refereeing

MOLECULAR DIVERSITY, SCI Journal, July 2024

Bayburt Fen Bilimleri Dergisi, National Scientific Refreed Journal, June 2024

Project Supported by Higher Education Institutions, BAP Research Project, Erzincan Binali Yildirim University, Turkey, March 2024

Journal of Biologically Active Products from Nature, SCI Journal, February 2024

SPECTROCHIMICA ACTA - PART A: MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, SCI Journal, December 2023

SPECTROCHIMICA ACTA - PART A: MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, SCI Journal, December 2023

Journal of the Turkish Chemical Society, Section A: Chemistry, National Scientific Refreed Journal, November 2023

Journal of the Turkish Chemical Society, Section A: Chemistry, National Scientific Refreed Journal, October 2023  
CHEMISTRYSELECT, SCI Journal, October 2023  
life in silico, Other journals, July 2023  
Life in Silico, Other journals, July 2023  
Life in Silico, Other journals, June 2023  
Journal of the Turkish Chemical Society Section A: Chemistry, National Scientific Refreed Journal, April 2023  
Bioorganic and Medicinal Chemistry Reports, Other journals, August 2022  
Bioorganic and Medicinal Chemistry Reports, Other journals, June 2022  
MEDICINAL CHEMISTRY RESEARCH, Journal Indexed in SCI-E, May 2022  
CHEMISTRYSELECT, Journal Indexed in SCI-E, May 2022  
JOURNAL OF THE TURKISH CHEMICAL SOCIETY, SECTION A: CHEMISTRY, National Scientific Refreed Journal, April 2022  
JOURNAL OF THE TURKISH CHEMICAL SOCIETY, SECTION A: CHEMISTRY, National Scientific Refreed Journal, March 2022  
THE EUROPEAN RESEARCH JOURNAL, National Scientific Refreed Journal, January 2022  
Open Journal of Nano, Other Journals, November 2021  
Open Journal of Nano, Other Journals, October 2021  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, April 2021  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, SCI Journal, March 2021  
JOURNAL OF THE TURKISH CHEMICAL SOCIETY, SECTION A: CHEMISTRY, National Scientific Refreed Journal, March 2021  
TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Erzincan Binali Yildirim University, Turkey, March 2021  
TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Erzincan Binali Yildirim University, Turkey, March 2021  
Adıyaman Üniversitesi Fen Bilimleri Dergisi, Other journals, February 2021  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, SCI Journal, January 2021  
JOURNAL OF THE TURKISH CHEMICAL SOCIETY, SECTION A: CHEMISTRY, National Scientific Refreed Journal, December 2020  
HACETTEPE JOURNAL OF BIOLOGY AND CHEMISTRY, National Scientific Refreed Journal, October 2020  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, October 2020  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, SCI Journal, September 2020  
JOURNAL OF SAUDI CHEMICAL SOCIETY, SCI Journal, August 2020  
International Journal of Chemistry and Technology, Other Journals, May 2020  
GÜMÜŞHANE ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, April 2020  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, February 2020  
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, SCI Journal, January 2020  
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, SCI Journal, December 2019  
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, SCI Journal, August 2019  
Synthetic Communications, SCI Journal, July 2019  
Journal of the Turkish Chemical Society, Section A: Chemistry, National Scientific Refreed Journal, May 2019  
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, SCI Journal, March 2019  
Journal of Biomolecular Structure and Dynamics, SCI Journal, January 2019  
Journal of Translational Science and Research, Other Indexed Journal, November 2018  
Journal of the Turkish Chemical Society, Section A: Chemistry, National Scientific Refreed Journal, November 2018  
Journal of the Turkish Chemical Society, Section A: Chemistry, National Scientific Refreed Journal, November 2018  
Journal of the Turkish Chemical Society, Section A: Chemistry, National Scientific Refreed Journal, October 2018  
Journal of the Turkish Chemical Society, Section A: Chemistry, National Scientific Refreed Journal, September 2018  
Molecular Informatics, SCI Journal, July 2018  
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, SCI Journal, July 2018  
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, SCI Journal, February 2018



Journal of Saudi Chemical Society, SCI Journal, February 2018  
Journal of Saudi Chemical Society, SCI Journal, February 2018  
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, SCI Journal, January 2018  
Journal of Molecular Structure, SCI Journal, December 2017  
Journal of Molecular Structure, SCI Journal, December 2017  
Journal of Molecular Structure, SCI Journal, October 2017  
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, SCI Journal, June 2017  
Journal of Saudi Chemical Society, SCI Journal, June 2017  
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, SCI Journal, May 2017  
Journal of Saudi Chemical Society, SCI Journal, May 2017  
Journal of the Turkish Chemical Society, Section A: Chemistry, National Scientific Refreed Journal, October 2016

## Tasks In Event Organizations

Türkmenoğlu B., 8th Drug Chemistry Conference, Scientific Congress, Antalya, Turkey, Mart 2020

## Congress and Symposium Activities

Materials Design Webinars, Attendee, Massachusetts, United States Of America, 2024  
Uluslararası 10. İlaç Kimyası: İlaç Etken Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Attendee, Antalya, Turkey, 2022  
VI. International Scientific and Vocational Studies Congress – Science and Health (BILMES SH 2021), Attendee, Tokat, Turkey, 2021  
8th Drug Chemistry Conference, Working Group, Antalya, Turkey, 2020  
1. Farmakolojide Güncel Yaklaşımlar Kongresi, Attendee, Kayseri, Turkey, 2019  
UYGULAMALI BİYOKİMYADA GÜNCEL KONULAR-5 Biyokimya Lisansüstü Yaz Okulu, Attendee, Turkey, 2019  
International Conference on Physical Chemistry and Functional Materials (PCFM'18), Attendee, Elazığ, Turkey, 2018  
2nd International Conference on Natural Products for Cancer Prevention and Therapy, Attendee, Kayseri, Turkey, 2017  
29. Ulusal Kimya Kongresi, Attendee, Ankara, Turkey, 2017  
Innovation in Medicine Summit-3, Attendee, Gaziantep, Turkey, 2017  
Uluslararası Katılımlı 5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Attendee, Antalya, Turkey, 2017  
28. Ulusal Kimya Kongresi, Attendee, Mersin, Turkey, 2016  
Third International Conference On New Trends In Chemometrics and Applications, Attendee, Antalya, Turkey, 2016  
1 st International BAU-Drug Design Symposium, Attendee, İstanbul, Turkey, 2013  
The 2nd International Conference on Computation for Science and Technology, Attendee, Niğde, Turkey, 2012  
III. Fiziksel Kimya Günleri Kongresi, Attendee, Balıkesir, Turkey, 2012  
25. Ulusal Kimya Kongresi, Attendee, Erzurum, Turkey, 2011

## Research Areas

Health Sciences, Pharmacology and Therapeutics, Basic Pharmaceutics Sciences, Basic Sciences of Pharmacy, General Chemistry, Chemistry, Physical Chemistry, Computational Chemistry, Natural Sciences