

## Assoc. Prof. İRFAN ÇAPAN



### Personal Information

**Office Phone:** [+90 312 202 3027](tel:+903122023027)

**Email:** [irfancapan@gazi.edu.tr](mailto:irfancapan@gazi.edu.tr)

**Web:** <https://avesis.gazi.edu.tr/irfancapan>

**Address:** Gazi Üniversitesi Eczacılık Fakültesi Eczacılık Temel Bilimleri Anabilim Dalı  
Emniyet Mah., Taç Sok., No:3 06560 Yenimahalle - ANKARA



### International Researcher IDs

ScholarID: TXyWAw0AAAAJ

ORCID: 0000-0002-9555-1555

Publons / Web Of Science ResearcherID: AAE-4102-2022

ScopusID: 57196451298

Yoksis Researcher ID: 102647

### Education Information

Doctorate, Fırat University, Institute Of Science, Kimya (Dr), Turkey 2010 - 2017

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Turkey 2007 - 2010

Undergraduate, Erciyes University, Fen Fakültesi, Kimya , Turkey 2003 - 2007

### Certificates, Courses and Trainings

Data Analysis, Deney Laboratuvarları İçin Metot Geçerli Kılma/Doğrulama (Validasyon/Verifikasyon) ve Ölçüm Belirsizliği Eğitimi, RAN Kalite Eğitim Danışmanlık, 2021

Quality Management, TS EN ISO/IEC 17025:2017'e Göre İç Tetkik Eğitimi (TS EN ISO 19011:2018 Yönetim Sistemleri Tetkik Standartı Tabanlı), Ran Kalite Eğitim Danışmanlık, 2021

Quality Management, TS EN ISO/IEC 17025:2017 Deney ve Kalibrasyon Laboratuvarlarının Yetkinliği İçin Genel Gereklilikler Standartı Eğitimi, RAN Kalite Eğitim Danışmanlık, 2021

### Dissertations

Doctorate, Dibenzobarallen ve Norbornen İskeletine Sahip Yeni 2-İmidazolin ve Benzimidazol Türevlerinin Sentezi, Fırat University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2017

Postgraduate, Benzimidazol Sübstitüe 1,2,4-Triazol ve 1,3,4-Tiyadiazollerin Mikrodalga Destekli Sentezleri, Erciyes University, Fen Bilimleri Enstitüsü, 2010

### Research Areas

Basic Sciences of Pharmacy, Organic Chemistry

### Academic Titles / Tasks

Associate Professor, Gazi University, Teknik Bilimler Meslek Yüksekokulu, Malzeme ve Malzeme İşleme Teknolojileri Bölümü, 2022 - Continues

Assistant Professor, Gazi University, Teknik Bilimler Meslek Yüksekokulu, Malzeme ve Malzeme İşleme Teknolojileri Bölümü, 2022 - 2023

Lecturer PhD, Gazi University, Teknik Bilimler Meslek Yüksekokulu, Malzeme ve Malzeme İşleme Teknolojileri Bölümü, 2018 - 2022

Research Assistant, Firat University, Faculty Of Science, Department Of Chemistry, 2009 - 2018

## Academic and Administrative Experience

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Gazi University, -, 2022 - 2024

Assistant Coordinator, Gazi University, Koordinatörlük, Araştırma Geliştirme Kurum Koordinatörlüğü, 2022 - 2024

NMR Laboratuvarı Sorumlusu, Firat University, Faculty Of Science, Department Of Chemistry, 2011 - 2018

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

- I. **Development of tripeptide-cyclotriphosphazene derivatives: In vitro cytotoxicity, genotoxicity studies and molecular docking analysis within ovarian and prostate cancer cell line receptors**  
Kaplan A., Çalışkan E., Çapan İ., Tekin S., Hassan M. N., Qaoud M. T., Koran K., Sandal S., Görgülü A. O.  
POLYHEDRON, vol.264, pp.117261-117276, 2024 (SCI-Expanded)
- II. **Phosphazene Tripeptide Conjugates: Design, Synthesis, In Vitro Cytotoxicity and Genotoxicity, Molecular Interactions in Binding Pockets on Human Breast and Colon Cancer Cell Lines**  
Çalışkan E., Yüksel F., Çapan İ., Tekin S., Bouzidi R., Qaoud M. T., Biryani F., Koran K., Sandal S., Görgülü A. O.  
CHEMMEDCHEM, vol.19, no.20, pp.1-30, 2024 (SCI-Expanded)
- III. **Tripeptide linked dispiro cyclotriphosphazene conjugates: Synthesis, molecular docking analysis of compounds binding within cancer cell line receptors and in vitro cytotoxic and genotoxic activities**  
Çalışkan E., ÇAPAN İ., TEKİN S., Qaoud M. T., Biryani F., Koran K., SANDAL S., GÖRGÜLÜ A. O.  
Bioorganic Chemistry, vol.150, 2024 (SCI-Expanded)
- IV. **Deciphering the Biophysical Properties of Ion Channel Gating Pores by Coumarin–Benzodiazepine Hybrid Derivatives: Selective AMPA Receptor Antagonists**  
Qneibi M., Hawash M., GÜMÜŞ M., ÇAPAN İ., SERT Y., BDIR S., KOCA İ., BDİR M.  
Molecular Neurobiology, vol.61, no.7, pp.4565-4576, 2024 (SCI-Expanded)
- V. **Exploration of isoxazole analogs: Synthesis, COX inhibition, anticancer screening, 3D multicellular tumor spheroids, and molecular modeling**  
Hawash M., Abdallah S., KENANOĞLU M. F., Melhem Y., Abu Shamat M., Aghbar M., ÇAPAN İ., Abualhasan M., Kumar A., Kamiński M., et al.  
European Journal of Medicinal Chemistry, vol.271, 2024 (SCI-Expanded)
- VI. **Synthesis of novel carbazole hydrazine-carbothioamide scaffold as potent antioxidant, anticancer and antimicrobial agents**  
Çapan İ., Hawash M., T. Qaoud M., Gülüm L., Yenilmez Tunoglu E. N., Uçar Çifci K., Çevrimli B. S., Sert Y., Servi S., Koca İ., et al.  
BMC Chemistry, vol.18, pp.1-21, 2024 (SCI-Expanded)
- VII. **Design, synthesis, molecular docking and biological evaluation of new carbazole derivatives as anticancer, and antioxidant agents**  
Çapan İ., Hawash M., Jaradat N., Sert Y., Servi R., Koca İ.  
BMC Chemistry, vol.17, no.1, 2023 (SCI-Expanded)
- VIII. **Characterization and Investigation of Novel Benzodioxol Derivatives as Antidiabetic Agents: An In Vitro and In Vivo Study in an Animal Model**  
Hawash M., Al-Smadi D., Kumar A., Olech B., Dominiak P. M., Jaradat N., Antari S., Mohammed S., Nasasrh A.,

Abualhasan M., et al.

BIOMOLECULES, vol.13, no.10, pp.1-16, 2023 (SCI-Expanded)

- IX. **Substituted 1,2,4-Triazoles as Novel and Selective Inhibitors of Leukotriene Biosynthesis Targeting 5-Lipoxygenase-Activating Protein**  
Olğaç A., Çapan İ., Dahlke P., Jordan P. M., Werz O., Banoglu E.  
ACS OMEGA, vol.8, no.34, pp.31293-31304, 2023 (SCI-Expanded)
- X. **Synthesis, docking studies, in vitro cytotoxicity evaluation and DNA damage mechanism of new tyrosine-based tripeptides.**  
Çalışkan E., Kaplan A., Şekerci G., Çapan İ., Tekin S., Erkan S., Koran K., Sandal S., Görgülü A. O.  
Journal of biochemical and molecular toxicology, vol.37, no.8, 2023 (SCI-Expanded)
- XI. **The first peptide derivatives of dioxybiphenyl-bridged spiro cyclotriphosphazenes: In vitro cytotoxicity activities and DNA damage studies**  
Koran K., Çalışkan E., Altay Öztürk D., ÇAPAN İ., TEKİN S., SANDAL S., GÖRGÜLÜ A. O.  
Bioorganic Chemistry, vol.132, 2023 (SCI-Expanded)
- XII. **Design, Synthesis and Evaluation of Aryl-Tailored Oxadiazole-thiones as New Urease Inhibitors**  
Gür Maz Z. T., Caliskan H. B., Capan İ., Caliskan B., Özçelik B., Banoglu E.  
CHEMISTRYSELECT, vol.8, no.8, 2023 (SCI-Expanded)
- XIII. **Synthesis, molecular docking, molecular dynamics and evaluation of Drug-Likeness properties of the fused N-Formyl pyrazoline substituted new dehydroepiandrosterone derivatives**  
ÇAPAN İ., Shehu A., SERT Y., ÇELİK İ., EROL M., KOCA İ., Servi S.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.41, no.6, pp.2492-2503, 2023 (SCI-Expanded)
- XIV. **Experimental and computational studies of 1,5-diphenyl-pyrazole-3-carboxamide compounds as potential Cannabinoid receptor type 1**  
Koca I., Yakan M., Capan I., Sahin E., Sert Y.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1264, pp.1-13, 2022 (SCI-Expanded)
- XV. **Synthesis, DFT study, molecular docking and drug-likeness analysis of the heteroaryl substituted new pregnenolone derivatives**  
ÇAPAN İ., SERT Y., Shehu A., KOCA İ., Servi S.  
Journal of Molecular Structure, vol.1260, 2022 (SCI-Expanded)
- XVI. **Discovery and Optimization of Piperazine Urea Derivatives as Soluble Epoxide Hydrolase (sEH) Inhibitors.**  
Çapan İ., Jordan P. M., Olğaç A., Çalışkan B., Kretzer C., Werz O., Banoglu E.  
ChemMedChem, vol.17, no.12, 2022 (SCI-Expanded)
- XVII. **Synthesis, dielectric properties, molecular docking and ADME studies of pyrrole-3-ones**  
Çapan İ., Gümüş M., Gokce H., Çetin H., Sert Y., Koca İ.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.40, no.19, pp.8655-8671, 2022 (SCI-Expanded)
- XVIII. **Methimazole Analogs as Urease Inhibitors: Synthesis, In Silico and In Vitro Evaluation**  
ÇAPAN İ.  
CHEMISTRYSELECT, vol.7, no.4, 2022 (SCI-Expanded)
- XIX. **Synthesis, DFT Study, Molecular Docking and Drug-Likeness Analysis of the New Hydrazine-1-Carbothioamide, Triazole and Thiadiazole Derivatives: Potential Inhibitors of HSP90**  
Çapan İ., Servi S., Yıldırım İ., Sert Y.  
CHEMISTRYSELECT, vol.6, no.23, pp.5838-5846, 2021 (SCI-Expanded)
- XX. **Synthesis and Anticancer Evaluation of Benzimidazole Derivatives Having Norbornene/Dibenzobarrelene Skeletons and Different Functional Groups**  
ÇAPAN İ., Servi S., Dalkilic S., Dalkilic L. K.  
CHEMISTRYSELECT, vol.5, no.45, pp.14393-14398, 2020 (SCI-Expanded)
- XXI. **Synthesis of New C2-Symmetric Chiral Benzimidazole Derivatives Having Norbornene/Dibenzobarrelene Skeletons**  
ÇAPAN İ., SERVİ S.  
LETTERS IN ORGANIC CHEMISTRY, vol.17, no.10, pp.801-805, 2020 (SCI-Expanded)

- XXII. **Synthesis of Indole and Benzimidazole Substituted Novel 16-Arylidene Steroid Derivatives**  
Karatas S., ÇAPAN İ., SERVİ S.  
LETTERS IN ORGANIC CHEMISTRY, vol.16, no.11, pp.884-890, 2019 (SCI-Expanded)
- XXIII. **A new barbiturate-based centrosymmetric compound: Joint experimental/DM investigation of the structural, spectroscopic and surface properties**  
Sen F., Capan İ., Dincer M., Cukurovali A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1155, pp.278-287, 2018 (SCI-Expanded)
- XXIV. **Synthesis of Heterocyclic-Substituted Novel Hydroxysteroids with Regioselective and Stereoselective Reactions**  
Kolo A. M., Ipek E., Capan İ., Servi S.  
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.55, no.2, pp.492-497, 2018 (SCI-Expanded)
- XXV. **Synthesis of novel C-2 substituted imidazoline derivatives having the norbornene/dibenzobarrelene skeletons**  
ÇAPAN İ., SERVİ S.  
ARKIVOC, pp.131-142, 2018 (SCI-Expanded)
- XXVI. **Synthesis of novel aza-heterocyclic derivatives from diester and diacid chlorides having the dibenzobarrelene skeleton**  
ÇAPAN İ., SERVİ S.  
SYNTHETIC COMMUNICATIONS, vol.48, no.10, pp.1164-1171, 2018 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Synthesis of 2-Amino-1,3,4-Oxadiazoles Derivatives with Benzimidazole Skeleton**  
Han D., Çapan İ., Servi S.  
MW Journal of Science, vol.1, no.1, pp.1-7, 2024 (Peer-Reviewed Journal)
- II. **Isolation of amygdalin epimer at high diastereomeric purity and its structural characterization by spectroscopic and Q-TOF LC-MS methods**  
Sabir P. R., ÇAPAN İ., AYSAL A. İ., Servi S.  
JOURNAL OF CHEMICAL METROLOGY, vol.15, no.2, pp.172-185, 2021 (ESCI)
- III. **Synthesis of carbazole-based acetyl benzohydrazides targeting urease enzyme inhibition**  
ÇAPAN İ.  
ORGANIC COMMUNICATIONS, vol.14, no.3, pp.270-279, 2021 (ESCI)

### Books & Book Chapters

- I. **N-Heterocycles Having One and Two Nitrogen Atoms As Corrosion Inhibitors**  
Gümüş M., Çapan İ., Koca İ.  
in: Handbook of Heterocyclic Corrosion Inhibitors Principles and Applications, Chandrabhan Verma, Editor, CRC, New York, New York, pp.448-473, 2023

### Refereed Congress / Symposium Publications in Proceedings

- I. **A Tale of Two 5-Lipoxygenase Activating Protein (FLAP) Inhibitors**  
OLĞAÇ A., TURANLI S., ÇAPAN İ., Dahlke P., ERGÜL A. G., Jordan P. M., ÇALIŞKAN B., Werz O., BANOĞLU E.  
Gordon Research Seminar on Computer Aided Drug Design, Vermont, United States Of America, 15 - 16 July 2023
- II. **A Tale of Two Diverse Sets of Novel 5-Lipoxygenase Activating Protein (FLAP) Inhibitors**  
OLĞAÇ A., TURANLI S., ÇAPAN İ., Dahlke P., ERGÜL A. G., Jordan P. M., ÇALIŞKAN B., Werz O., BANOĞLU E.  
International Multidisciplinary Symposium on Drug Research and Development (DRD) 2023, İzmir, Turkey, 04

May 2023

- III. **Yeni Dipeptit Sübstitüe Siklotrifosfazen Türevlerinin İn Vitro Sitotoksisite Aktiviteleri ve DNA Hasarı Özellikleri**  
Çalışkan E., Altay Öztürk D., Çapan İ., Tekin S., Koran K., Sandal S., Görgülü A. O.  
34. Ulusal Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022, pp.1
- IV. **HSP90'ın Potansiyel İnhibitörü Olarak ((1H-benzimidazol-2-il)karbamoil)-L-fenilalaninat Türevlerinin Sentezi ve Moleküler Kenetlenme Analizi**  
Çapan İ., Sert Y., Karaca T. D., Koca İ.  
34. Ulusal Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022, pp.1
- V. **Antimigratory Activity of Methimazole Derivative Compound**  
ŞİMAY DEMİR Y. D., DÖNMEZ M. O., ÇAPAN İ.  
10th International Medicine and Health Sciences Researches Congress, Ankara, Turkey, 27 - 28 August 2022
- VI. **Synthesis of Tyrosine Based Peptides and Investigation of DNA Damage and Cytotoxicity**  
ÇALIŞKAN E., KORAN K., GÖRGÜLÜ A. O., ÇAPAN İ., TEKİN S., SANDAL S.  
5th Organic Chemistry Congress 2021, Turkey, 14 October 2021
- VII. **Üreaz İnhibitörü Olarak Yeni Oksadiazol-2-on Türevlerinin Sentezi**  
ÇAPAN İ.  
33. Ulusal Kimya Kongresi, Turkey, 07 October 2021
- VIII. **Determination of the Amount of Acrylamide, Phthalate and Bisphenol-A (BPA) in Tap Water in the Ostim Organized Industrial Zone by Liquid Chromatography Mass Spectrometry**  
Çapan İ., Yalnız H. A., Arslaner İ. B., Süslü D.  
33. Ulusal Kimya Kongresi, 7 - 09 October 2021, pp.311
- IX. **SYNTHESIS AND CHARACTERIZATION OF NEW ORGANIC COMPOUNDS CONTAINING PYRIMIDINE**  
Çapan İ., Koca İ.  
6th INTERNATIONAL ZEUGMA CONFERENCE ON SCIENTIFIC RESEARCHES June 19-20, 2021, GAZİANTEP, TURKEY, 19 - 20 June 2021, pp.297-302
- X. **Synthesis of Potential Biologically Active Molecules; Thiosemicarbazide and 1,2,4-Triazole Derivatives Having the Carbazole Hybrid**  
ÇAPAN İ.  
8. International Drug Chemistry Conference, Turkey, 27 February 2020
- XI. **Investigation of thermal and dielectric properties of morpholine/triazine-based acryl amide polymer composites**  
ÇAPAN İ., ÇEVİRİMLİ B. S., BİRYAN F.  
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), 28 - 29 June 2019
- XII. **Synthesis of Pyrazoline Derivatives that are Exocyclic Substituted with the Steroid Molecule**  
ÇAPAN İ., Shehu A., SERVİ S.  
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), 28 - 29 June 2019
- XIII. **Synthesis of Novel C-2 Substituted Imidazoline Derivatives from Diacid Chlorides Having the Norbornene Skeletons**  
Çapan İ., Servi S.  
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018, pp.1282
- XIV. **Synthesis of Norbornene-Based Compounds Containing Ester and Benzimidazole**  
Çapan İ., Servi S.  
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018, pp.456
- XV. **Synthesis of Novel C-2 Substituted Imidazoline Derivatives From Diacid Chlorides Having The Dibenzobarrelene Skeletons**  
ÇAPAN İ., SERVİ S.

Uluslararası Katılımlı 6. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Turkey, 22 March 2018

- XVI. **The Unexpected Products from the Reaction of 2-Amino Benzimidazole or 2-Amino Imidazoline with Dibenzobarrelene -Based Diester and Diacid Chlorides**  
ÇAPAN İ., SERVİ S.  
Uluslararası Katılımlı 6. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Turkey, 22 - 25 March 2018
- XVII. **QUANTUM CHEMICAL, SPECTROSCOPIC AND CRYSTALSTRUCTURE STUDIES oF 1-(2-(3-METHYL-3-PHENYLCYCLOBUTYL)-2-OXOE THYL)- 1 H-INDOLE-3 -CARBALDEHYDE**  
ACAR B., DİNÇER M., ÇAPAN İ., ÇUKUROVALI A.  
33th INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 6 - 10 September 2017
- XVIII. **One-Pot Synthesis of New bis- 2-imidazolines from Nitriles under Neat Condition**  
ÇAPAN İ., KOLO M. A., SERVİ S.  
Anatolian Conference on Synthetic Organic Chemistry (ACSOC-II), 21 - 24 March 2016
- XIX. **Synthesis of Chiral C2-Symmetric Bis- Benzimidazoles from Anthracene's [4 + 2] Cycloaddition Product**  
ÇAPAN İ., SERVİ S.  
Anatolian Conference on Synthetic Organic Chemistry (ACSOC-II), 21 - 24 March 2016
- XX. **Synthesis of New Mono-Benzimidazoles from Some [4 + 2] Cycloaddition Products**  
ÇAPAN İ., SERVİ S.  
Anatolian Conference on Synthetic Organic Chemistry (ACSOC-II), 21 - 24 March 2016
- XXI. **Synthesis of New Benzimidazolyl and Indolyl Substituted trans-dehydroandrosterone Derivatives**  
Doğan Karataş S., ÇAPAN İ., KOLO M. A., SERVİ S.  
Anatolian Conference on Synthetic Organic Chemistry (ACSOC-II), 21 - 24 March 2016
- XXII. **Mikrodalga Destekli Benzimidazol Süstitüe 1,2,4-Triazol Türevlerinin ve Mannich Reaksiyonu Ürünlerinin Sentezi**  
ÇAPAN İ., SERVİ S., YILDIRIM İ.  
24. Ulusal Kimya Kongresi, Turkey, 29 June 2010
- XXIII. **Benzimidazol Süstitüe 1,3,4-Tiyadiazol ve N-Alkil Türevlerinin Sentezi**  
ÇAPAN İ., SERVİ S., YILDIRIM İ.  
24. Ulusal Kimya Kongresi, Turkey, 29 June 2010
- XXIV. **Synthesis and Reactions of Some Pyrazole-3-Carboxylic Acid Derivatives with Grignard Reagent**  
KORKUSUZ E., ÇAPAN İ., YILDIRIM İ.  
Eleventh Tetrahedron Symposium, 06 June 2010

## Supported Projects

ÇAPAN İ., GÜLÇİN İ., KOCA İ., SERT Y., Project Supported by Higher Education Institutions, Üre Temelli Yeni Hibrit Moleküllerin Sentezi Karakterizasyonu ve Biyolojik Aktivitelerinin Değerlendirilmesi, 2024 - Continues

ÇAPAN İ., ABUALHASAN M., JARADAT N. A., KOCA İ., SERT Y., HAWASH M., Project Supported by Higher Education Institutions, Yeni Pirazol Türevi Moleküllerin Sentezi COX İnhibitörü Olarak Değerlendirilmesi, 2024 - Continues

Çapan İ., TUBITAK Project, Piretroidlerin Üretiminde Kullanılan Bazı Organik Kimyasalların Laboratuvar Koşullarında Sentezlenmesi ve Ölçekleme Çalışmaları Yapılarak Sanayide Üretime Hazır Hale Getirilmesi, 2024 - 2026

Çapan İ., TUBITAK Project, Bazı Piretroidlerin Üretiminde Kullanılan DV Asit Klorür Maddesinin Laboratuvar Koşullarında Sentezlenmesi ve Ölçekleme Çalışmalarının Tamamlanarak Sanayide Üretime Hazır Hale Getirilmesi, 2023 - 2025

Çapan İ., Gümüş M., Tutar Y., Sert Y., Koca İ., Açıkalm Coşkun K., TUBITAK Project, Kinoksalinon-Tiyazol Hibrit Yapılarının Tasarımı, Sentezi ve Antikanser Çalışmaları, 2022 - 2025

Çapan İ., Korkusuz E., Gülçin İ., Sert Y., Koca İ., TUBITAK Project, Antipirin Türevi Hibrit Moleküllerin Tasarımı ve Karbonik Anhidraz Aktivitesinin Araştırılması, 2023 - 2024

Çapan İ., Aysal A. İ., Ünsal S. M., TÜBİTAK Project, Bazı Patlayıcı Maddelerde Bulunan RDX, TNT ve PETN Bileşiklerinin İzolasyonu ve Karakterizasyonu, 2022 - 2024

Çapan İ., Koca İ., Sert Y., Gülçin İ., TÜBİTAK Project, Doğal Ürün Squamolone Türevi Hibrit Moleküllerin Tasarımı Ve Karbonik Anhidraz Aktivitesinin Araştırılması, 2021 - 2023

Çapan İ., Banoğlu E., KOSGEB, Pyriproxyfen Aktif Maddesinin Laboratuvar Koşullarında Sentezlenmesi, 2021 - 2022

BANOĞLU E., ÇAPAN İ., Project Supported by Higher Education Institutions, Çözünür Epoksit Hidrolaz Enzim İnhibitörlerinin Geliştirilmesi, 2020 - 2022

Olğaç A., Çapan İ., Banoğlu E., TÜBİTAK Project, Lökotrien Biyosentez İnhibitörlerinin Geliştirilmesi, 2020 - 2022

Çapan İ., Koca İ., Project Supported by Higher Education Institutions, Pirimidin Çekirdeği İçeren Yeni Organik Bileşiklerin Sentezi ve Karakterizasyonu , 2020 - 2021

Çapan İ., Açık L., Gümüş M., Aydın B., TÜBİTAK Project, Benzimidazol-Karbazol Temelli Yeni Hibrit Moleküllerin Sentezi Ve Dna İle Etkileşimlerinin Araştırılması, 2020 - 2021

Çapan İ., Görgülü A. O., Koran K., Tekin S., Sandal S., TÜBİTAK Project, Yeni Peptit Sübstitüentli Siklofosfazenlerin Sentezi, Karakterizasyonu, Sitotoksisite ve DNA Hasarı İncelenmesi, 2018 - 2021

Çapan İ., Project Supported by Higher Education Institutions, Yeni Bir Seri Tiyosemikarbazit ve Triazol/Tiyadiazol Hibritine Sahip Karbazol Türevi Bileşiklerin Sentezi ve Antikanser Aktivitelerinin Gen İfade Düzeyinde Araştırılması, 2018 - 2021

ÇAPAN İ., Project Supported by Higher Education Institutions, Bazı [42] Siklokatılma Ürünlerinden Benzimidazol Türevlerinin Sentezi ve Anti-kanser Etkilerinin Araştırılması, 2017 - 2019

ÇAPAN İ., Project Supported by Higher Education Institutions, Antrasen ve Siklopentadien' in Diels-Alder Katılma Ürünlerinden Yeni Benzimidazol Türevlerinin Sentezi, 2016 - 2017

ÇAPAN İ., Project Supported by Higher Education Institutions, Bazı Yeni 2-İmidazolin Türevlerinin Sentezi, 2013 - 2017

## Patent

Banoğlu E., Olğaç A., Çapan İ., Kretzer C., Werz O., 5-Lipoksijenaz Aktive Edici Protein (FLAP) İnhibitörleri - 2, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2021/001958 , Standard Registration, 2024

Çapan İ., Tiyametoksam Sentezinde Yeni Bir Yöntem, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2022/010688 , Standard Registration, 2022

Çapan İ., Deltametrin Sentezinde Yeni Bir Yöntem, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2022/010685 , Standard Registration, 2022

Çapan İ., Sipermetrin Sentezinde Yeni Bir Yöntem, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2022/010686 , Standard Registration, 2022

Çapan İ., Piriproksifen Sentezinde Yeni Bir Yöntem, Patent, CHAPTER A Human Needs, The Invention Recourse Number: 2022/006578 , Standard Registration, 2022

Çapan İ., alfa-Sipermetrin Sentezinde Yeni Bir Yöntem, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2022/010684 , Standard Registration, 2022

## Scientific Refereeing

CHEMISTRYOPEN, SCI Journal, April 2024

CHEMISTRY AND BIODIVERSITY, Journal Indexed in SCI-E, December 2023

CHEMISTRY - AN ASIAN JOURNAL, Journal Indexed in SCI-E, July 2023

JOURNAL OF BIOMOLECULAR STRUCTURE AND DYNAMICS, Journal Indexed in SCI-E, October 2022

34. Ulusal Kimya Kongresi, Conference Paper (Abstract), July 2022

CHEMISTRYSELECT, SCI Journal, May 2022

Future Medicinal Chemistry, SCI Journal, April 2022

EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, National Scientific Refreed Journal, January 2022

## **Scientific Research / Working Group Memberships**

Banođlu Research Group (Brg), Gazi University, Turkey, <https://brg428.wixsite.com/banoglu>, 2018 - Continues

## **Metrics**

Publication: 54

Citation (WoS): 134

Citation (Scopus): 146

H-Index (WoS): 7

H-Index (Scopus): 7

## **Awards**

Çapan İ., Makale Ödülü, Gazi University, December 2023

Çapan İ., Proje Ödülü, Gazi University, December 2023

## **Non Academic Experience**

Business Establishment Private, Sente Chemical Company, R&D Center

Sente Kimya Araştırma Geliştirme A.Ş.

Evias İlaç Araştırma Geliştirme Yazılım Danışmanlık San. Tic. Ltd. Şti.