# Prof. HACER BAYRAK

## Personal Information

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**International Researcher IDs**
ORCID: 0000-0001-5843-8716
Publons / Web Of Science ResearcherID: A-7320-2015
ScopusID: 8391931700
Yoksis Researcher ID: 125700

## Education Information

Undergraduate, Istanbul University, Open And Dıstance Educatıon Faculty, KAMU YÖNETİMİ, LİSANS PROGRAMI, Turkey 2023 - Continues
Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Turkey 2021 - 2022
Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya / Organik Kimya Abd , Turkey 2006 - 2010
Postgraduate, Bülent Ecevit Üniversitesi, Fen Bilimleri Enstitüsü, Kimya / Organik Kimya Abd , Turkey 2003 - 2006
Undergraduate, Karadeniz Technical University, Fen Edebiyat Fakültesi, Kimya, Turkey 1999 - 2003

## Foreign Languages

German, B2 Upper Intermediate
English, B2 Upper Intermediate

## Certificates, Courses and Trainings

Education Management and Planning, Taslak Ders Kitabı İnceleme ve Değerlendirme Eğitimi, Republic of Türkiye Ministry of National Education, 2022
Quality Management, TS EN ISO/IEC 17021 - 1 Eğitimi, TURKISH ACCREDITATION AGENCY (TURKAK), 2022
Quality Management, YÖKAK Kurumsal Dış Değerlendirme, Kurumsal Akreditasyon ve Kurumsal İzleme Programları 2022 yılı Değerlendirici Başlangıç Eğitimi, The Higher Education Quality Council of Turkey (THEQC), 2022
Quality Management, Kişisel Verilerin Korunması Kanunu (KVKK) KVKK FARKINDALIK EĞİTİMİ 1. KISIM ve KVKK FARKINDALIK EĞİTİMİ 2. KISIM, TURKISH ACCREDITATION AGENCY (TURKAK), 2020
Quality Management, YT ve LAK ile ilgili Dikkat Edilecek Hususlar Eğitimi ve Sınavı , TURKISH ACCREDITATION AGENCY (TURKAK), 2020
Quality Management, P705 Uzaktan Denetim Prosedürü ve Uygulaması Eğitimi , TURKISH ACCREDITATION AGENCY (TURKAK), 2020
Quality Management, Kriz ve Zaman Yönetimi Eğitimi ve Sınavı, TURKISH ACCREDITATION AGENCY (TURKAK), 2019
Quality Management, Etik ve Tarafsızlık, Bilgilerin Gizliliği ve Güvenliği Eğitimi ve Sınavı, TURKISH ACCREDITATION

AGENCY (TURKAK), 2019
Quality Management, Ekip, Liderlik ve Zor İnsanlarla Başa Çıkma Eğitimi ve Sınavı, TURKISH ACCREDITATION AGENCY (TURKAK), 2019
Quality Management, İletişim Becerileri – İkna Teknikleri Eğitimi ve Sınavı, TURKISH ACCREDITATION AGENCY (TURKAK), 2019
Quality Management, TS EN ISO/IEC 17025:2017 Denetçi Eğitimi, TURKISH ACCREDITATION AGENCY (TURKAK), 2019
Quality Management, TS EN ISO/IEC 17025 Standardı Temel Bilgilendirme Eğitimi, TURKISH ACCREDITATION AGENCY (TURKAK), 2019
Quality Management, TS EN ISO/IEC 17043 Denetçi Eğitimi ve Sınavı, TURKISH ACCREDITATION AGENCY (TURKAK), 2019
Quality Management, ISO 17034 Denetçi Eğitimi , TURKISH ACCREDITATION AGENCY (TURKAK), 2019
Occupational Health and Safety, İSG, Karadeniz Teknik Üniversitesi / İş Yeri Sağlık ve Güvenlik Birimi, 2017
Quality Management, TÜRKAK Denetçi Deneyim Paylaşım Toplantısı ve Yenilenme Eğitimi, TÜRKAK, 2017
Other, AR-GE İŞBİRLİKLERİ ZİRVESİ VE FUARI, BİLİM SANAYI VE TEKNOLJİ BAKANLIĞI, 2017
Quality Management, TÜRKAK- Laboratuvar Teknik Uzman Oryantasyon Eğitimi, TÜRKAK, 2016
Education Management and Planning, TURKEY in HORIZON 2020, TÜBİTAK - IDI -CFCU, 2016
Quality Management, TÜRKAK Laboratuvar Akreditasyon Başkanlığı Denetçi Deneyim Paylaşım Toplantısı ve Yenilenme Eğitimi, TÜRKAK, 2016
Education Management and Planning, TÜBİTAK-TEMEL VE UYGULAMALI BİLİMLERDE ARAŞTIRMA PROJESİ HAZIRLAMA EĞİTİMİ, KTÜ, 2014
Quality Management, Metod Validasyonu Eğitimi, TÜBİTAK-UME, 2011
Quality Management, Metod Validasyonu Eğitimi, TÜBİTAK-UME, 2011
Quality Management, Kimyasal Analizlerde Belirsizlik Hesaplanması Eğitimi, TÜBİTAK-UME, 2011
Occupational Health and Safety, Analizlerde Kullanılan Kimyasal Maddeler, T.C. Tarım ve Köyişleri Bakanlığı Trabzon İl Kontrol Lab. Müdürlüğü, 2010
Quality Management, Hacim Kalibrasyonu ve Ölçüm Belirsizliği, Uzmanlar Metroloji Servisi (UMS), 2009
Quality Management, Terazi Kalibrasyonu ve Ölçüm Belirsizliği, Uzmanlar Metroloji Servisi (UMS), 2009
Other, Gaz Kromatografisi ile Oksijenli Bileşikler ve Toplam Oksijen içerik Tayini, SEM, 2009
Other, Atomik Emisyon Spektroskopisi (ICP: OES) teorik ve pratik eğitim, BES Mühendislik, 2008
Quality Management, TSE Terazi Kalibrasyonu Eğitimi, TSE, 2008
Quality Management, TSE Hacim Kalibrasyonu Eğitimi, TSE, 2008
Other, Gaz Kromatografisi ile Biyodizelde Gliserol ve Mono, Di, Trigliserit Bileşenlerinin Belirlenmesi, SEM, 2008
Quality Management, ISO 17025:2005 Kuruluş içi Kalite Denetimi- İç Denetçi, Gelişim 2000, 2008
Quality Management, Ölçüm Belirsizliği Eğitimi, UZMAN Akreditasyon Danışmanlık, 2008
Quality Management, ISO 17025:2005 Ölçüm Belirsizliği, Gelişim 2000, 2008
Quality Management, ISO 17025:2005 Kuruluş içi Kalite Denetimi, Gelişim 2000, 2008
Other, Gaz Kromatografisi ile Ester, LAME ve Metanol içeriğinin Belirlenmesi, SEM, 2008
Quality Management, TS EN ISO 9001:2000 Kalite Yönetim Sistemi, Kimyagerler Derneği, 2008
Quality Management, TS EN ISO/IEC 17025:2005 Deney ve Kalibrasyon Laboratuvarlarının Yeterliliği İçin Genel Şartlar, Gelişim 2000, 2008
Other, FT-IR/NIR Spektrometre Cihaz Kullanımı Eğitimi/Yöntem Oluşturma, TETRA, 2008
Quality Management, İyi Üretm Uygulamaları-GMP, Kimyagerler Derneği, 2008
Other, Reformulyzer M3 Çok yönlü Gaz Kromatografisi Hidrokarbon Türlerinin ve Oksijenatların Belirlenmesi, SEM, 2008
Other, Waters HPLC & Empower Yazılımı Kullanıcı Eğitimi, LiKrom Analitik Çözümler Ltd., 2008

## Dissertations

Doctorate, Synthesis of some Bi- and polyheterocyclic compounds and investigation of their antimicrobial activities, Karadeniz Technical University, Fen Bilimleri Enstitüsü, 2010
Postgraduate, Kükürt İçeren Kiral Dienofiller ve Diels-Alder Reaksiyonları, Zonguldak Bülent Ecevit University, Graduate

School Of Natural And Applıed Scıences, 2006

## Research Areas

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

## Academic Titles / Tasks

Professor, Karadeniz Technical University, Maçka Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, 2021 - Continues
Associate Professor, Karadeniz Technical University, Maçka Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, 2015 - 2021
Assistant Professor, Karadeniz Technical University, Maçka Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, 2014 - 2015
Research Assistant PhD, Karadeniz Technical University, Rektörlük, 2008 - 2014

## Academic and Administrative Experience

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Karadeniz Technical University, Maçka Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, 2020 - 2022
Birim Kalite Komisyon Koordinatörü, Karadeniz Technical University, Maçka Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, 2019 - 2022
Rectorate Commissioner, Karadeniz Technical University, Rektörlük, KTU Quality Commission, 2019 - 2022
Staj Başkanı, Karadeniz Technical University, Maçka Meslek Yüksekokulu, Maçka Meslek Yüksekokulu, 2018 - 2022
Assistant Director of Vocational School, Karadeniz Technical University, Maçka Meslek Yüksekokulu, 2017 - 2022
Meslek Yüksekokulu Yönetim Kurulu Üyesi, Karadeniz Technical University, Maçka Meslek Yüksekokulu, KTU Macka Vocational School Board of Directors, 2017 - 2022

## Courses

Organik Kimyada Polar Tepkimeler, Postgraduate, 2017 - 2018
Kimyada Temel Kavramlar-I, Associate Degree, 2017 - 2018
Perisiklik Reaksiyon Sınıflandırılması , Postgraduate, 2017 - 2018
Kalite Yönetim Sistemleri, Associate Degree, 2017 - 2018
Ayırma Yöntemleri, Associate Degree, 2017 - 2018
Aktif Metilen Bileşikler ve Reaksiyonları, Doctorate, 2016 - 2017
Vitamin ve Hormon Biyokimyası, Associate Degree, 2016 - 2017
Temel Laboratuvar Teknikleri ve Güvenliği, Associate Degree, 2015 - 2016
Temel Laboratuvar Teknikleri ve Güvenliği, Associate Degree, 2015 - 2016
Kalite Yönetim Sistemleri, Associate Degree, 2015 - 2016
Laboratuvar Teknikleri-I , Associate Degree, 2015 - 2016
İş Sağlığı ve İş Güvenliği, Associate Degree, 2014 - 2015
Standardizasyon ve Kalite, Associate Degree, 2014 - 2015
Ayırma Yöntemleri, Associate Degree, 2015 - 2016
Mesleki Deneyim-I, Associate Degree, 2015 - 2016
Farmasötik ve Biyomedikal Analizler, Associate Degree, 2014 - 2015
Kalite Yönetim Sistemleri, Associate Degree, 2015 - 2016
Laboratuvar Güvenliği, Associate Degree, 2014 - 2015

Bilgi ve İletişim Teknolojisi , Associate Degree, 2014 - 2015
Laboratuvar Teknikleri-I, Associate Degree, 2014 - 2015
Ayırma Yöntemleri, Associate Degree, 2014 - 2015

## Advising Theses

Bayrak H., Postgraduate, E.TAFLAN(Student), 2020

## Jury Memberships

Post Graduate, Post Graduate, Gümüşhane Üniversitesi, August, 2021
Doctoral Examination, Doctoral Examination, Sakarya Üniversitesi, October, 2018
Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, June, 2018

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

I. **Synthesis, antioxidant activity, docking simulation, and computational investigation of novel heterocyclic compounds and Schiff bases from picric acid**
Bayrak H., Fahim A. M., Yaylacı Karahalil F., Azafad I., Boyracı G. M., Taflan E.
Journal of Molecular Structure, vol.1281, 2023 (SCI-Expanded)

II. ** Synthesis of novel antipyrine-azole-S-alkyl derivatives antimicrobial activity, molecular docking, and computational studies **
Cebeci Y. U., Bayrak H., Alpay Karaoğlu Ş., Fahim A. M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1260, 2022 (SCI-Expanded)

III. **Synthesis of novel beta-lactams: Antioxidant activity, acetylcholinesterase inhibition and computational studies**
Fahim A. M., Farag A. M., Mermer A., BAYRAK H., Sirin Y.
JOURNAL OF MOLECULAR STRUCTURE, vol.1233, 2021 (SCI-Expanded)

IV. **Synthesis, DFT calculations, biological investigation, molecular docking studies of beta-lactam derivatives**
Mermer A., Bayrak H., Alyar S., Alagumuthu M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1208, 2020 (SCI-Expanded)

V. **Synthesis of Novel Antipyrine Derivatives Possessing Remarkable Antimicrobial Activities**
BAYRAK H., CEBECI Y. U., KARAOGLU S. A.
CHEMISTRYSELECT, vol.4, no.44, pp.12906-12908, 2019 (SCI-Expanded)

VI. **Synthesis of novel Azol-beta-lactam derivatives starting from phenyl piperazine and investigation of their antiurease activity and antioxidant capacity comparing with their molecular docking studies**
MERMER A., BAYRAK H., SIRIN Y., EMIRIK M., DEMİRBAŞ N.
JOURNAL OF MOLECULAR STRUCTURE, vol.1189, pp.279-287, 2019 (SCI-Expanded)

VII. **Novel imidazo[2,1-b] [1,3,4]thiadiazole (ITD) hybrid compounds: Design, synthesis, efficient antibacterial activity and antioxidant effects**
TAFLAN E., BAYRAK H., Er M., KARAOGLU S. A., BOZDEVECI A.
BIOORGANIC CHEMISTRY, vol.89, 2019 (SCI-Expanded)

VIII. **Synthesis of novel Schiff bases and azol-beta-lactam derivatives starting from morpholine and thiomorpholine and investigation of their antitubercular, antiurease activity, acethylcolinesterase inhibition effect and antioxidant capacity**
CEBECI Y. U., BAYRAK H., ŞIRIN Y.
BIOORGANIC CHEMISTRY, vol.88, 2019 (SCI-Expanded)

IX. **Structure-based Hybridization, Microwave Prompted Synthesis and Biological Evaluation of Novel 4-(2-Fluoro-4-Nitrophenyl)morpholine Derivatives**
CEBECI Y. U., DEMİRBAŞ N., OZDEMIR S. B., BAYRAK H., DEMİRBAŞ A., Aksakal F., KARAOGLU S. A.
LETTERS IN ORGANIC CHEMISTRY, vol.15, no.11, pp.940-959, 2018 (SCI-Expanded)

X. **Microwave-Assisted Synthesis of Some Hybrid Molecules Derived from Morpholine and Investigation of Their Antimicrobial Activities**
CEBECI Y. U., OZDEMIR S. B., Ceylan S., BAYRAK H., DEMİRBAŞ A., ALPAY-KARAOGLU S., DEMİRBAŞ N.
CHEMISTRYSELECT, vol.2, no.35, pp.11402-11407, 2017 (SCI-Expanded)

XI. **Synthesis and antimicrobial activity of new piperazine-based heterocyclic compounds**
OZDEMIR S. B., CEBECI Y. U., BAYRAK H., MERMER A., Ceylan S., DEMİRBAŞ A., KARAOGLU S. A., DEMİRBAŞ N.
HETEROCYCLIC COMMUNICATIONS, vol.23, no.1, pp.43-54, 2017 (SCI-Expanded)

XII. **Synthesis and Antimicrobial Activities of Hybrid Heterocyclic Molecules Based on 1-(4-Fluorophenyl)piperazine Skeleton**
OZDEMIR S. B., DEMİRBAŞ N., CEBECI Y. U., BAYRAK H., MERMER A., Ceylan S., DEMİRBAŞ A.
LETTERS IN DRUG DESIGN & DISCOVERY, vol.14, no.9, pp.1014-1034, 2017 (SCI-Expanded)

XIII. **Determination of Au(III) and Pd(II) ions by flame atomic absorption spectrometry in some environmental samples after solid phase extraction**
Bayrak H. E., BULUT V. N., TUFEKCI M., BAYRAK H., DURAN C., SOYLAK M.
TOXICOLOGICAL AND ENVIRONMENTAL CHEMISTRY, vol.99, no.4, pp.590-600, 2017 (SCI-Expanded)

XIV. **Microwave-assisted and conventional synthesis of novel antimicrobial 1,2,4-triazole derivatives containing nalidixic acid skeleton**
Ceylan S., BAYRAK H., Ozdemir S. B., Uygun Y., Mermer A., DEMİRBAŞ N., Ülker S.
HETEROCYCLIC COMMUNICATIONS, vol.22, no.4, pp.229-237, 2016 (SCI-Expanded)

XV. **Comparative study for the separation, preconcentration, and determination of copper and cadmium in real samples by using two di?erent ligands**
Elvan Bayrak H., BULUT V. N., TÜFEKÇİ M., BAYRAK H., DURAN C., Soylak M.
TURKISH JOURNAL OF CHEMISTRY, vol.40, pp.93-105, 2016 (SCI-Expanded)

XVI. **Novel Microwave Assisted Synthesis and Antimicrobial Activity of New Quinolone-Hybrids**
Ceylan S., BAYRAK H., OZDEMIR S. B., UYGUN Y., MERMER A., DEMİRBAŞ N., ULKER S.
LETTERS IN ORGANIC CHEMISTRY, vol.13, no.9, pp.636-651, 2016 (SCI-Expanded)

XVII. **Comparative study for the separation, preconcentration, and determination of copper and cadmium in real samples by using two different ligands**
Bayrak H. E., BULUT V. N., Tufekci M., BAYRAK H., DURAN C., SOYLAK M.
Turkish Journal of Chemistry, vol.40, no.1, pp.93-105, 2016 (SCI-Expanded)

XVIII. **Synthesis, aggregation and spectroscopic studies of novel water soluble metal free, zinc, copper and magnesium phthalocyanines and investigation of their anti-bacterial properties**
Bayrak R., Akcay H. T., Beris F. S., ŞAHİN E., BAYRAK H., DEMİRBAŞ Ü.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.133, pp.272-280, 2014 (SCI-Expanded)

XIX. **Synthesis of some new hybride molecules containing several azole moieties and investigation of their biological activities**
Ceylan S., BAYRAK H., DEMİRBAŞ A., Ulker S., Alpay-Karaoglu S., DEMİRBAŞ N.
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, vol.40, no.3, pp.314-329, 2014 (SCI-Expanded)

XX. **SOLID PHASE EXTRACTION OF Cd(II) AND Pb(II) IONS BY A NEW CARBOTHIOAMIDE DERIVATIVE**
Ozdes D., DURAN C., BAYRAK H., Serencam H., Senturk H. B.
JOURNAL OF THE CHILEAN CHEMICAL SOCIETY, vol.58, no.4, pp.2204-2208, 2013 (SCI-Expanded)

XXI. **Syntheses and Biological Activities of New Hybrid Molecules Containing Different Heterocyclic Moieties**
Ceylan S., Bektas H., BAYRAK H., DEMİRBAŞ N., Alpay-Karaoglu S., Uelker S.
ARCHIV DER PHARMAZIE, vol.346, no.10, pp.743-756, 2013 (SCI-Expanded)

XXII. **Microwave assisted synthesis of some hybrid molecules derived from norfloxacin and investigation**

**of their biological activities**
Mentese M. Y., BAYRAK H., Uygun Y., Mermer A., Ülker S., Karaoglu S. A., DEMİRBAŞ N.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.67, pp.230-242, 2013 (SCI-Expanded)

XXIII. **Synthesis and biological activities of methylenebis-4H-1,2,4-triazole derivatives**
Uygun Y., BAYRAK H., Ozkan H.
TURKISH JOURNAL OF CHEMISTRY, vol.37, no.5, pp.812-823, 2013 (SCI-Expanded)

XXIV. **Design and synthesis of some azole derivatives as potential antimicrobial agents**
SAHIN D., BAYRAK H., DEMİRBAŞ A., DEMİRBAŞ N., Alpay-Karaoglu S.
MEDICINAL CHEMISTRY RESEARCH, vol.21, no.12, pp.4485-4498, 2012 (SCI-Expanded)

XXV. **Preconcentration by Coprecipitation of Copper and Nickel with Mo(VI)/Triazole Derivative System and Their Determinations by Flame Atomic Absorption Spectrometry in Food and Water Samples**
Ozdes D., DURAN C., BAYRAK H., BULUT V. N., Tufekci M.
CLEAN-SOIL AIR WATER, vol.40, no.2, pp.211-217, 2012 (SCI-Expanded)

XXVI. **Design and synthesis of new 1,2,4-triazole derivatives containing morpholine moiety as antimicrobial agents**
SAHIN D., BAYRAK H., DEMİRBAŞ A., DEMİRBAŞ N., Karaoglu S. A.
TURKISH JOURNAL OF CHEMISTRY, vol.36, no.3, pp.411-426, 2012 (SCI-Expanded)

XXVII. **Cyclization of some carbothioamide derivatives containing antipyrine and triazole moieties and investigation of their antimicrobial activities**
BAYRAK H., DEMİRBAŞ A., DEMİRBAŞ N., Karaoglu S. A.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.45, no.11, pp.4726-4732, 2010 (SCI-Expanded)

XXVIII. **Synthesis and antimicrobial activities of some new biheterocyclic compounds containing 1,2,4-triazol-3-one and 1,3,4-thiadiazole moieties**
Bektas H., DEMİRBAŞ A., DEMİRBAŞ N., BAYRAK H., Karaoglu S. A.
TURKISH JOURNAL OF CHEMISTRY, vol.34, no.4, pp.517-527, 2010 (SCI-Expanded)

XXIX. **Synthesis and antimicrobial activities of some new 1,2,4-triazole derivatives**
BAYRAK H., DEMİRBAŞ A., Bektas H., Karaoglu S. A., DEMİRBAŞ N.
TURKISH JOURNAL OF CHEMISTRY, vol.34, no.6, pp.835-846, 2010 (SCI-Expanded)

XXX. **Synthesis of some new 1,2,4-triazoles starting from isonicotinic acid hydrazide and evaluation of their antimicrobial activities**
BAYRAK H., DEMİRBAŞ A., DEMİRBAŞ N., Karaoglu S. A.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.44, no.11, pp.4362-4366, 2009 (SCI-Expanded)

XXXI. **Synthesis of some new 1,2,4-triazoles, their Mannich and Schiff bases and evaluation of their antimicrobial activities**
BAYRAK H., DEMİRBAŞ A., Karaoglu S. A., DEMİRBAŞ N.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.44, no.3, pp.1057-1066, 2009 (SCI-Expanded)

## Articles Published in Other Journals

I. **Synthesis and Antimicrobial activites of some Antipyrine-Triazole-Conazoles**
BAYRAK H.
Hacettepe Journal of Biology and Chemistry, 2020 (Peer-Reviewed Journal)

II. **Synthesis of Some New Kind of Antipyrine Carbo(thio)amide and 1,2,4-Triazole Derivatives and Comparing Their Anti-tubercular Activities**
Bayrak H., Uygun Cebeci Y.
The Black Sea Journal of Sciences (Karadeniz Fen Bilimleri Dergisi, KFBD), vol.9, no.2, pp.323-334, 2019 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

I. **Antipyrine-Spirooxindole**
BAYRAK H.
Latin America 4th International Conference on Scientific Researches, Mexico City, Mexico, 03 November 2022

II. **Antimicrobial Activity and Microwave Assisted Synthesis of New Hybrid Compounds Derived From Fluoroquinolone Skeleton**
BAYRAK H., DEMİRBAŞ A., DEMİRBAŞ N., ŞEN İ., MERMER A.
7th International BAU Drug Design Congress, İstanbul, Turkey, 19 - 21 December 2019, pp.27

III. **Microwave Supported Synthesis of New Quinolone-Thiazolidinone Hybrids and Their Antimicrobial Activities**
DEMİRBAŞ A., DEMİRBAŞ N., BAYRAK H., ŞEN İ., TAFLAN E., MERMER A.
7th International BAU Drug Design Congress, İstanbul, Turkey, 19 - 21 December 2019, pp.30

IV. **Synthesis and Antimicrobial Activities of New Hybrid Drug CandidatesConsisting of Quinolone and Thiazolidinone Units by Microwave Irradiated Method**
DEMİRBAŞ N., DEMİRBAŞ A., BAYRAK H., AYVAZ A., ÖZDEMİR BAŞOĞLU S.
7th International BAU Drug Design Congress, İstanbul, Turkey, 19 - 21 December 2019, pp.29

V. **Synthesis and Antimicrobial Activities of new Mannich Bases Containing Imidazo[2,1-ß] [1,3,4]Thiadiazole (ITD) structure by Microwave and Conventional Method**
TAFLAN E., BAYRAK H., Alpay Karaoğlu Ş., Bozdeveci A.
1st Eurasia Environmental Chemistry Congress, Antalya, Turkey, 1 - 04 November 2018, pp.62

VI. **Antioxidant Activity and Synthesis Route of some New Heterocyclic Compounds Containing different Pharmacophores**
TAFLAN E., BAYRAK H., ER M.
1st Eurasia Environmental Chemistry Congress, Antalya, Turkey, 1 - 04 November 2018, pp.63

VII. **Conventional and Microwave Irradiated Synthesis of Highly Substituted Piperazine-Azole Hybrids**
ÖZDEMİR BAŞOĞLU S., DEMİRBAŞ N., DEMİRBAŞ A., BAYRAK H.
2nd International Conference Expo on Green Chemistry and Engineering (ICEGCE 2018), Barselona, Spain, 23 - 24 July 2018, pp.3

VIII. **Synthesis of New Mannich Bases Containing Imidazo[2,1-ß][1,3,4]Thiadiazole (ITD) Fused Rings With Fluoroquinolone Drugs**
TAFLAN E., BAYRAK H., OZDEMIR S. B., DEMİRBAŞ N.
2nd International Conference & Expo on Green Chemistry and Engineering (ICEGCE 2018), Barselona, Spain, 23 - 24 July 2018, pp.2

IX. **Synthesis of some Conazole Analogues and Mannich Bases starting from 4-amino-3-methyl-1H-1,2,4-triazol-5(4H)-one with Microwave Reaction Methods**
CEBECI Y. U., BAYRAK H., CEYLAN S., OZDEMIR S. B., DEMİRBAŞ N., DEMİRBAŞ A.
2nd International Conference & Expo on Green Chemistry and Engineering (ICEGCE 2018), Barselona, Spain, 23 - 24 July 2018, pp.1

X. **Microwave Irradiated Synthesis and Biological Activity Screening Studies of Novel Mannich Bases Containing Fluorophenyl Piperazine Rings**
OZDEMIR S. B., DEMİRBAŞ A., BAYRAK H., DEMİRBAŞ N.
2nd International Conference & Expo on Green Chemistry and Engineering (ICEGCE 2018), Barselona, Spain, 23 - 24 July 2018, pp.5

XI. **Synthesis of New Hybrid Molecules Containing ß-Lactam Ring, and Screening for their Antimicrobial, Antioxidant, Anti Ureas & Acetylcolinesterase Activites**
BAYRAK H.
1st International Conference on Innovations in Natural Science and Engineering, Magosa, Cyprus (Kktc), 3 - 06 January 2018, pp.77

XII. **Antimicrobial, Antioxidant, Anti Ureas & Acetylcholinesterase Activity of some New ß-Lactam Analogs Containing Thiomorpholine and Azole rings**

BAYRAK H., Uygun Y., DEMİRBAŞ N., Şirin Y.
1st International Conference on Innovations in Natural Science and Engineering, Magosa, Cyprus (Kktc), 3 - 06 January 2018, pp.157

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## Supported Projects

BAYRAK H., YAYLACI KARAHALİL F., TURKUT G. M., Project Supported by Higher Education Institutions, Potansiyel Antimikrobiyal ve Antioksidan Maddeleri Olarak Yeni Spirooksindol Yapılarının Sentezi ve Biyolojik Olarak Değerlendirilmesi, 2020 - 2023

BAYRAK H., YAYLACI KARAHALİL F., Project Supported by Higher Education Institutions, Tri-Nitro Aromatik Grup İçeren Azol Bileşiklerin ve Schiff Bazlarının Sentezi ile Antioksidan Kapasitelerinin İncelenmesi, 2020 - 2021

BULUT V. N., BAYRAK H., TOSUN O., ER M., TURKUT G. M., YILDIRIM AKATIN M., DİLBER G., Project Supported by Higher Education Institutions, Glutarimid Türevi Azol Bileşiklerin Schiff ve Mannich Bazlarının Sentezi ile Antimikrobiyal Aktivitelerinin ve Antioksidan Kapasitelerinin İncelenmesi, 2019 - 2020

DEMİRBAŞ N., BAYRAK H., KILIÇ A. O., BAŞOĞLU ÖZDEMİR S., Project Supported by Higher Education Institutions, Potansiyel Antimikrobial Bileşikler Olarak Florokinolon Antibiyotiklerinin Yeni Analoglarının Sentezi, 2017 - 2018

DEMİRBAŞ N., UYGUN Y., BAYRAK H., Project Supported by Higher Education Institutions, Çeşitli Heterosiklik Halkalar İçeren Hibrit Bileşiklerin Sentezi, Biyolojik Aktivitelerinin Araştırılması, 2016 - 2018

BAYRAK H., Project Supported by Higher Education Institutions, Antipirin Köklü Farklı Farmakofor Gruplara Sahip Yeni Bileşiklerin Sentezi ve Antimikrobial Aktivitelerinin İncelenmesi, 2015 - 2018

Bayrak H., Demirbaş N., TUBITAK Project, Synthesis of Hybrid Molecules Containing Piperazine, Thio / Morpholine, Azole and β-Lactam Ring and Investigation of their Bological Activites , 2015 - 2018

Bayrak H., Demirbaş N., TUBITAK Project, Synthesis of Hybrid Molecules Containing Piperazine, Thio / Morpholine, Azole and β-Lactam Ring and Investigation of their Bological Activites , 2015 - 2017

DEMİRBAŞ A., BAYRAK H., TUBITAK Project, Konazol ve Ciprofloksazin Esaslı Hibrit Moleküllerin Sentezi ve Biyolojik Aktivitelerinin İncelenmesi, 2013 - 2015

DEMİRBAŞ N., DEMİRBAŞ A., TUBITAK Project, Bazı Bi- ve Poliheterosiklik Bileşiklerin Sentezi, Antimikrobial ve Antitümöral Özelliklerinin İncelenmesi, 2007 - 2010

## Activities in Scientific Journals

International Journal of Medicinal Chemistry, Special Issue Editor, 2016 - Continues

## Scientific Refereeing

JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, August 2023
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, June 2023
JOURNAL OF TAIBAH UNIVERSITY MEDICAL SCIENCES, Journal Indexed in ESCI, February 2023
GREEN CHEMISTRY LETTERS AND REVIEWS, SCI Journal, November 2022
CURRENT MICROWAVE CHEMISTRY, Journal Indexed in ESCI, November 2022
CURRENT MICROWAVE CHEMISTRY, Journal Indexed in SCI-E, October 2022
KOSGEB, Kimya Gıda Otomotiv İnşaat Turizm İthalat İhracat Sanayi ve Ticaret Limited Şirketi, Turkey, October 2022
Project Supported by Higher Education Institutions, BAP Research Project, Tekirdağ Namik Kemal University, Turkey, October 2022
MEDICINAL CHEMISTRY RESEARCH, Journal Indexed in SCI-E, April 2022
KOSGEB, Kimya Gıda Otomotiv İnşaat Turizm İthalat İhracat Sanayi ve Ticaret Limited Şirketi, Turkey, April 2022
JOURNAL OF HETEROCYCLIC CHEMISTRY, Journal Indexed in SCI-E, February 2022
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, December 2021
Turkish Analitical Chemistry, Other journals, December 2021
JOURNAL OF HETEROCYCLIC CHEMISTRY, Journal Indexed in SCI-E, October 2021
ARABIAN JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, September 2021
Turkish Analitical Chemistry, Other journals, August 2021
ARABIAN JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, March 2021
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, January 2021
MEDICINAL CHEMISTRY, Journal Indexed in SCI-E, December 2020
GREEN CHEMISTRY LETTERS AND REVIEWS, Journal Indexed in SCI-E, October 2020
ARCHIV DER PHARMAZIE, SCI Journal, August 2020
MEDICINAL CHEMISTRY RESEARCH, Journal Indexed in SCI-E, June 2020
LETTERS IN ORGANIC CHEMISTRY, Journal Indexed in SCI-E, June 2020
ARABIAN JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, April 2020
MEDICINAL CHEMISTRY RESEARCH, Journal Indexed in SCI-E, April 2020
Project Supported by Higher Education Institutions, BAP Other, Erciyes University, Turkey, November 2019
Project Supported by Higher Education Institutions, BAP Research Project, Tekirdağ Namik Kemal University, Turkey, March 2019
Project Supported by Higher Education Institutions, BAP Other, Karadeniz Technical University, Turkey, May 2018
Project Supported by Higher Education Institutions, BAP PhD, Tekirdağ Namik Kemal University, Turkey, October 2017
FP7 Project, FP7 Project, ERA.Net RUS Plus, Russia, August 2017
Project Supported by Higher Education Institutions, BAP PhD, Tekirdağ Namik Kemal University, Turkey, June 2017
Medicinal Chemistry Research , SCI Journal, June 2016
Arabian Journal of Chemistry, SCI Journal, January 2016
Journal Of Taibah University Medical Sciences, SCI Journal, April 2014
Medicinal Chemistry Research (MCRE), SCI Journal, April 2012

## Scientific Consultations

TÜBİTAK-KBAG (KİMYA BİYOLOJİ ARAŞTIRMA DESTEK GRUBU), Project Consultancy, Karadeniz Technical University, Maçka Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, Turkey, 2014 - 2015

## Tasks In Event Organizations

Bayrak H., 2. International Environmental Chemistry Congress, Scientific Congress, Antalya, Turkey, Kasım 2019
Bayrak H., 1st International Conference on Innovations in Natural Science and Engineering (ICINSE 2018), Scientific Congress, Gazimagusa, Cyprus (Kktc), Ocak 2018
Bayrak H., III. National Organic Chemistry Congress , Scientific Congress, Trabzon, Turkey, Eylül 2016

## Metrics

Publication: 120
Citation (WoS): 964
Citation (Scopus): 1026
H-Index (WoS): 15
H-Index (Scopus): 14

## Congress and Symposium Activities

Latin Amerika 4th International Conference On Scientific Researches, Attendee, Mexico City, Mexico, 2022
Latin America 4th International Conference on Scientific Researches, Moderator, Mexico City, Mexico, 2022
14 EKIM DÜNYA STANDARTLAR GÜNÜ ULUSLARARASI STANDARDİZASYON ZİRVESİ, Attendee, İstanbul, Turkey, 2022
1st Eurasia Environmental Chemistry Congress, Attendee, Antalya, Turkey, 2018
2nd International Conference & Expo on Green Chemistry and Engineering (ICEGCE 2018), Attendee, Barcelona, Spain, 2018
1st International Conference on Innovations in Natural Science and Engineering, Attendee, Gazimagusa, Cyprus (Kktc), 2018
International Conference on Innovations in Natural Science and Engineering (ICINSE 2018), Invited Speaker, Gazimagusa, Cyprus (Kktc), 2018
3rd International Turkic World Conference on Chemical Sciences & Technologies / ITWCCST - 2017, Attendee, Baku, Azerbaijan, 2017
TÜRKAK Laboratuvar Akreditasyonu Denetçi Deneyim Paylaşım Toplantısı ve Yenilenme Eğitimi, Attendee, Ankara, Turkey, 2017
AR-GE İŞBİRLİKLERİ ZİRVESİ VE FUARI, Attendee, İstanbul, Turkey, 2017
TURKEY in HORIZON 2020, Attendee, Trabzon, Turkey, 2016
4. BAU DRUG DESIGN Congress, Attendee, İstanbul, Turkey, 2016
TÜRKAK Laboratuvar Akreditasyonu Denetçi Deneyim Paylaşım Toplantısı ve Yenilenme Eğitimi, Attendee, İstanbul, Turkey, 2016
3.Ulusal Laboratuvar Akreditasyonu ve Güvenliği Sempozyumu, Attendee, İstanbul, Turkey, 2016
International Turkic World Conference on Chemical Sciences and Technologies-ITWCCST 2015, Attendee, Sarajevo, Bosnia And Herzegovina, 2015
16th Tetrahedron Symposium, Attendee, Berlin, Germany, 2015
ERASMUS- STAFF MOBILITY PROGRAM (Personel Ders Verme Programı), Attendee, Italy, 2015
2. İlaç Kimyası Üretimi, Teknolojisi ve Standardizasyonu Kongresi, Attendee, Antalya, Turkey, 2014
I. Ulusal Organik Kimya Kongresi, Attendee, Sakarya, Turkey, 2013
XXIV. Ulusal Kimya Kongresi, Attendee, Zonguldak, Turkey, 2010
XXII. Ulusal Kimya Kongresi, Attendee, Mağosa, Cyprus (Kktc), 2008

## Awards

Bayrak H., Best Researcher Award, International Research Excellence And Citation Awards, September 2023

## Non Academic Experience

Other Public Institution, Turkish Higher Education Quality Council, Turkish Higher Education Quality Council
Other Public Institution, Turkish Standards Institution (TSE), Mirror Technical Committee (MTC) / Risk Management
TÜRK STANDARDLARI ENSTİTÜSÜ (TSE)
Other Public Institution, Turkish Standards Institution (TSE), Mirror Committee, Mirror Technical Committee (MTC)
Other Public Institution
Other Public Institution
TÜRK STANDARDLARI ENSTİTÜSÜ (TSE)
TÜRK STANDARDLARI ENSTİTÜSÜ (TSE)
Other Public Institution, TURKISH ACCREDITATION AGENCY (TURKAK), TURKISH ACCREDITATION AGENCY (TURKAK)
KTÜ-Yakıt Uygulama ve Araştırma Merkezi