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Personal Information

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International Researcher IDs

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Education

Doctorate, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, Kimya, Turkey 2010 - 2013

Postgraduate, Karadeniz Technical University, -, Kimya, Turkey 2005 - 2009

Undergraduate, Karadeniz Technical University, Rize Fen Edebiyat Fakültesi, Kimya, Turkey 1999 - 2003

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Bazı Yeni Perimidin ve Bisbenzimidazol Türevi Bileşiklerin Mikrodalga Işıma ile Sentezi, Yapılarının Aydınlatılması ve Antimikrobiyal Özelliklerinin İncelenmesi, Recep Tayyip Erdogan University, Fen Bilimleri Enstitüsü, Kimya, 2013

Postgraduate, 4,5-Disubstitue-2,4-dihidro-3H-triazol-3-on'ların Sentezi ve Özelliklerininİncelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya, 2009

Research Areas

Chemistry, Organic Chemistry, Natural Sciences

Academic Positions

Associate Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2020 - Continues

Assistant Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2014 - 2018

Courses

Doctorate

İlaç Etken Maddeler Ve Biyokimyası, Doctorate, 2020 - 2021

Postgraduate

Fiziksel Organik Kimya, Postgraduate, 2020 - 2021

Undergraduate

Kimya-I, Undergraduate, 2020 - 2021

Temel Kimya, Undergraduate, 2020 - 2021

Kimya-I Lab., Undergraduate, 2020 - 2021

Organik Kimya Laboratuvarı II, Undergraduate, 2019 - 2020

Supervised Theses

Karaali N., Serbest izosiyanat içermeyen, silan sonlu tek bileşenli poliüretan köpük hazırlanması, Postgraduate, Ü.ÜLKER(Student), 2019

Karaali N., Bazı yeni 1,2-disubstitue benzimidazol türevi bileşiklerin sentezi, karakterizasyonu ve antioksidan özelliklerinin incelenmesi, Postgraduate, S.AYDIN(Student), 2017

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Design, Synthesis, and Urease Inhibition Activities of Some bis-Coumarin-perimidine Hybrid Compounds**
Ünal Karaali N.
RUSSIAN JOURNAL OF ORGANIC CHEMISTRY, vol.60, no.Suppl. 1, pp.78-84, 2024 (SCI-Expanded)
- II. **Synthesis and Characterization of Some New 2,3-Disubstituted Quinazolin-4(3H)-one Compounds, Investigation of Urease, and AChE Inhibition Properties, Molecular, and Docking Study**
Ünal Karaali N., Akyüz G., Emirik M.
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, vol.50, no.5, pp.1783-1799, 2024 (SCI-Expanded)
- III. **Synthesis of novel quinazolinone-triheterocyclic hybrides as dual inhibition of urease and ache**
MENTEŞE E., Güzel Y. Ü., AKYÜZ G., Karaali N. Ü.
Journal of the Iranian Chemical Society, vol.21, no.9, pp.2425-2431, 2024 (SCI-Expanded)
- IV. **Synthesis of novel tetra-substituted benzimidazole compounds containing certain heterostructures with antioxidant and anti-urease activities**
Karaali N., Aydın S., Baltas N., Mentese E.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.57, no.4, pp.1806-1815, 2020 (SCI-Expanded)
- V. **SYNTHESIS, INHIBITORY PROPERTIES ON THE METABOLIC ENZYMES AND ANTIOXIDANT ACTIVITY OF A NEW SERIES BENZIMIDAZOLE DERIVATIVES**
KARAALI N., ATIK R., Balta N., Sasmaz S., KAHVECİ B.
REVUE ROUMAINE DE CHIMIE, vol.64, no.8, pp.719-726, 2019 (SCI-Expanded)
- VI. **A convenient method for the synthesis of 3,4-dihydroquinazolines from iminoester hydrochlorides via microwave irradiation**
Karaali N.
JOURNAL OF CHEMICAL RESEARCH, vol.43, pp.140-143, 2019 (SCI-Expanded)
- VII. **Synthesis and Urease Inhibition Study of Some New Quinazolinone Derivatives Bearing Triazole, Thiadiazole, and Piperazine Moiety**
Karaali N., MENTEŞE M., Baltas N., Mentese E.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.55, no.11, pp.2571-2577, 2018 (SCI-Expanded)
- VIII. **Synthesis and antioxidant, antiurease and anti-xanthine oxidase activities of some new benzimidazoles bearing triazole, oxadiazole, thiadiazole and imin function**
Karaali N., Baltas N., Mentese E.
INDIAN JOURNAL OF CHEMISTRY SECTION B-ORGANIC CHEMISTRY INCLUDING MEDICINAL CHEMISTRY, vol.57, no.3, pp.374-384, 2018 (SCI-Expanded)
- IX. **MICROWAVE-ASSISTED SYNTHESIS OF SOME NITRO-BENZIMIDAZOLES AND THEIR SALICYL AND**

ISATIN SCHIFF BASES

YILMAZ F., KARAALI N., Sasmaz S.

BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA, vol.31, no.2, pp.351-359, 2017 (SCI-Expanded)

- X. **Synthesis and evaluation of alpha-glucosidase and pancreatic lipase inhibition by quinazolinone-coumarin hybrids**
Mentese E., Karaali N., Akyuz G., Yilmaz F., Ulker S., KAHVECİ B.
CHEMISTRY OF HETEROCYCLIC COMPOUNDS, vol.52, no.12, pp.1017-1024, 2016 (SCI-Expanded)
- XI. **SYNTHESIS AND STUDY OF ANTITUMOR ACTIVITY OF SOME NEW 2-(4-METHOXYBENZYL)-1H-BENZIMIDAZOLE DERIVATIVES BEARING TRIAZOLE, OXADIAZOLE AND ETHANOL MOIETY**
Karaali N., Mentese E.
REVUE ROUMAINE DE CHIMIE, vol.61, no.3, pp.187-192, 2016 (SCI-Expanded)
- XII. **Rapid synthesis and lipase inhibition activity of some new benzimidazole and perimidine derivatives**
MENTESE E., YILMAZ F., Karaali N., ULKER S., KAHVECİ B.
RUSSIAN JOURNAL OF BIOORGANIC CHEMISTRY, vol.40, no.3, pp.336-342, 2014 (SCI-Expanded)
- XIII. **An efficient synthesis of some new bisbenzimidazoles via microwave technique**
KAHVECİ B., Karaali N., Yilmaz F., Mentese E.
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.3, pp.423-429, 2014 (SCI-Expanded)
- XIV. **A Novel Route to One-Pot Three-Component Synthesis of Benzimidazo [2,1-b]-quinazolin-1-one Derivatives**
KAHVECİ B., YILMAZ F., MENTESE E., Karaali N.
LETTERS IN ORGANIC CHEMISTRY, vol.10, no.7, pp.490-495, 2013 (SCI-Expanded)
- XV. **Microwave-Assisted Synthesis and Biological Evaluation of Some Benzimidazole Derivatives Containing a 1,2,4-Triazol Ring**
Mentese E., Karaali N., Yilmaz F., Ulker S., KAHVECİ B.
ARCHIV DER PHARMAZIE, vol.346, no.7, pp.556-561, 2013 (SCI-Expanded)
- XVI. **Synthesis of new perimidine derivatives from the reaction of 1,8-diaminonaphthalene with iminoester hydrochlorides**
KAHVECİ B., Karaali N., MENTESE E., YILMAZ F.
JOURNAL OF CHEMICAL RESEARCH, no.6, pp.377-379, 2013 (SCI-Expanded)
- XVII. **MICROWAVE-ASSISTED SYNTHESIS OF SOME 5(6)-NITRO-1H-BENZIMIDAZOLES AND THEIR HYDRAZIDE DERIVATIVES**
YILMAZ F., MENTESE E., Karaali N., KAHVECİ B.
BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA, vol.27, no.2, pp.265-271, 2013 (SCI-Expanded)
- XVIII. **Synthesis and Antimicrobial Activities of Some New 1,2,4-Triazole Derivatives**
Bektas H., Karaali N., Sahin D., DEMİRBAŞ A., KARAOĞLU Ş., DEMİRBAŞ N.
MOLECULES, vol.15, no.4, pp.2427-2438, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Some New Bis-(1,2,4-Triazole) Compounds: Synthesis, Characterization and Urease Enzyme Inhibition**
Ünal Karaali N., Cihangir H. N.
Karadeniz Fen Bilimleri Dergisi, vol.14, no.3, pp.1360-1370, 2024 (Peer-Reviewed Journal)
- II. **Synthesis of Some New Benzimidazole Derivatives Containing Chlorine and Investigation of Their Antioxidant and Anti-urease Activities**
KARAALI N.
Journal of the Turkish Chemical Society, Section A: Turkish Journal of Chemistry, vol.5, no.2, pp.971-980, 2018 (Scopus)
- III. **CALCULATION OF ACID DISSOCIATION CONSTANTS AND BIOLOGICAL ACTIVITIES IN SOME PYRIMIDINE DERIVATIVES AS KNOWN DRUG ACTIVE SUBSTANCE**

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **"Synthesis and characterization of some new coumarin-perimidine hybrid compounds**
Ünal Karaali N.
6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023) , Ankara, Turkey, 11 - 13 October 2023, pp.308, (Summary Text)
- II. **Synthesis of some novel benzimidazole derivative compounds and investigation of urease enzyme inhibition properties**
KARAALI N.
1st International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 - 23 November 2018, pp.44, (Summary Text)
- III. **Synthesis of Some Benzimidazole Derivatives Containing Imine Function and Calculation of Their E/Z Isomers**
YILMAZ F., MENTEŞE E., AKYÜZ G., KARAALI N., KAHVECİ B.
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE: ICAS 2017, 13 - 15 October 2017, (Summary Text)
- IV. **SYNTHESIS, ANTIOXIDANT, XANTHINE OXIDASE AND UREASE INHIBITORY ACTIVITIES OF SOME CHLORINE CONTAINING BENZIMIDAZOLES**
YILMAZ F., MENTEŞE E., KARAALI N., BALTAŞ N., KAHVECİ B.
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE: ICAS 2017, 13 - 15 September 2017, (Summary Text)
- V. **Synthesis of Some Hybride Molecules Containing Piperazine Moiety**
YILMAZ F., MENTEŞE E., KARAALI N., KAHVECİ B.
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE: ICAS 2017, 13 - 15 September 2017, pp.201-202, (Summary Text)
- VI. **Microwave-assisted Synthesis of Some New Potantial Biological 4-(Arylidenamino)-2, 4-dihydro-3H-1,2,4-Triazol-3-ones and Determination of pKa Values**
YILMAZ F., KAHVECİ B., İSLAMOĞLU F., MENTEŞE E., KARAALI N.
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE: ICAS 2017, 13 - 15 September 2017, pp.216-217, (Summary Text)
- VII. **Synthesis, Antioxidant, Xanthine Oxidase And Urease Inhibitory Activities Of Some Chlorine Containing Benzimidazoles**
YILMAZ F., MENTEŞE E., KARAALI N., BALTAŞ N., KAHVECİ B.
Second International Conference On Advances, İstanbul, Turkey, 13 - 15 September 2017, pp.171, (Full Text)
- VIII. **Synthesis, Antioxidant, Xanthine Oxidase And Urease Inhibitory Activities Of Some Chlorine Containing Benzimidazoles**
YILMAZ F., MENTEŞE E., KARAALI N., BALTAŞ N., KAHVECİ B.
Second International Conference On Advances, İstanbul, Turkey, 13 - 15 September 2017, pp.171, (Full Text)
- IX. **A New Green Protocol for the Synthesis of 2-Substituted Perimidines From Hydrazones Under Catalyst- and Solvent-Free Conditions**
YILMAZ F., MENTEŞE E., KARAALI N., KAHVECİ B.
INTERNATIONAL CONFERENCE ON ADVANCES IN SCIENCE: ICAS 2017, 13 - 15 September 2017, pp.203, (Summary Text)
- X. **Synthesis, Antioxidant, Xanthine Oxidase And Urease Inhibitory Activities Of Some Chlorine Containing Benzimidazoles**
YILMAZ F., MENTEŞE E., KARAALI N., BALTAŞ N., KAHVECİ B.
Second International Conference On Advances, İstanbul, Turkey, 13 - 15 September 2017, pp.171, (Full Text)
- XI. **Synthesis of New 1,2-Disubstitued-1H-Benzimidazole Derivatives with Their Urease Inhibition**

Properties and Antioxidant Activity

KARAALI N., MENTEŞE E., BALTAŞ N.

3rd International Turkic World Conference on Chemical Sciences & Technologies ITWCCST –2017, Baku, Azerbaijan, 10 - 13 September 2017, pp.245, (Full Text)

- XII. **Synthesis and Urease Inhibition Activities of Some New Quinazolinone-4(3H)-one Derivatives Containing 1,3,4-Thiadiazole and 1,2,4-Triazole nucleus**
KARAALI N.
Azerbaycan/ Bakü 3rd International Turkic World Conference on Chemical Sciences & Technologies ITWCCST – 2017, Baku, Azerbaijan, 10 - 13 September 2017, pp.90, (Full Text)
- XIII. **Synthesis of New 1,2-Disubstitued-1H-Benzimidazole Derivatives with Their Urease Inhibition Properties and Antioxidant Activity**
KARAALI N., MENTEŞE E., BALTAŞ N.
3rd International Turkic World Conference on Chemical Sciences & Technologies ITWCCST –2017, Baku, Azerbaijan, 10 - 13 September 2017, pp.245, (Full Text)
- XIV. **Synthesis and Antimicrobial Activities of Some Coumarin Derivatives**
YILMAZ F., MENTEŞE E., KARAALI N., KAHVECİ B.
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, 26 - 29 April 2017, pp.1023, (Summary Text)
- XV. **Synthesis of Some New 1,2-Disubstitued-1H-Benzimidazole Derivative Compounds and Investigation of Their Antioxidant, Anti-xanthine oxidase and Anti-urease Activities**
KARAALI N., BALTAŞ N., MENTEŞE E.
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017, pp.839, (Full Text)
- XVI. **Synthesis of Some New 1,2-Disubstitued-1H-Benzimidazole Derivative Compounds and Investigation of Their Antioxidant, Anti-xanthine oxidase and Anti-urease Activities**
KARAALI N., BALTAŞ N., MENTEŞE E.
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017, pp.839, (Full Text)
- XVII. **Microwave-assisted Synthesis and Biological Activity of Some 5(6)-Nitro-1H-Benzimidazoles and Their Salicyl and Isatin Schiff Bases**
YILMAZ F., MENTEŞE E., KARAALI N., BALTAŞ N., KAHVECİ B.
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017, pp.600-601, (Full Text)
- XVIII. **Synthesis of New 2,3-disubstituted Quinazolinone-4(3H)- one Derivatives With Their Enzyme Inhibition Properties**
KARAALI N., MENTEŞE E., BALTAŞ N.
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017, pp.286, (Full Text)
- XIX. **SYNTHESIS OF NEW COUMARIN QUINAZOLIN 4 3H ONEHYBRIDE MOLECULES AS ALPHA GLUCOSIDASE INHIBITOR**
MENTEŞE E., YILMAZ F., KARAALI N., ÜLKER S., KAHVECİ B.
27. European Colloquium on Heterocyclic Chemistry, Amsterdam, Netherlands, 3 - 06 July 2016, pp.25
- XX. **Synthesis of Some New Coumarin Quinazolin 4 3H one hybride Molecules as a Glucosidase Inhibitor**
MENTEŞE E., YILMAZ F., KARAALI N., ÜLKER S., KAHVECİ B.
XXVII European Colloquium on Heterocyclic Chemistry, Amsterdam, Netherlands, 3 - 06 July 2016, (Summary Text)
- XXI. **SYNTHESIS OF SOME NEW COUMARIN-QUINAZOLIN-4(3H)-ONEHYBRIDE MOLECULES AS c.GLUCOSIDASE INHIBITOR**
MENTEŞE E., YILMAZ F., KARAALI N., ÜLKER S., KAHVECİ B.
27th European Colloquium on HETEROCYCLIC CHEMISTRY, 3 - 06 July 2016, (Summary Text)
- XXII. **The Synthesis of Some Novel 1,3,4-oksadiazole, 1,2,4-triazole, 1,3,4-thiadiazole Derivatives of**

Benzimidazole and Investigation of Some Biological Activity

KARAALİ N., MENTEŞE E., BALTAŞ N.

IVEK 2rd International Convention of Pharmaceuticals and Pharmacies, 27 - 29 November 2015, pp.81, (Summary Text)

- XXIII. **Bazı Yeni Benzimidazol Türevlerinin Sentezi ve Antitümör Aktivitelerinin İncelenmesi**
KARAALİ N., MENTEŞE E., YILMAZ F., KAHVECİ B.
2. Ulusal organik Kimya Kongresi, Ankara, Turkey, 24 - 26 September 2014, (Summary Text)
- XXIV. **Microwave Assisted Synthesis of Some Novel Benzimidazol and Perimidine Derivatives with Their Lipase Activity**
MENTEŞE E., YILMAZ F., KARAALİ N., ÜLKER S., KAHVECİ B.
44 th World Chemistry Congress, 11 - 16 August 2013, pp.119, (Summary Text)
- XXV. **Microwave-Assisted Synthesis of Some Novel Benzimidazole and Perimidine Derivatives with Their Lipase Activity**
MENTEŞE E., YILMAZ F., KARAALİ N., ÜLKER S., KAHVECİ B.
IUPAC 2013 44th World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013, (Summary Text)
- XXVI. **Antioksidan Ajan Olarak 1,2,4-Triazol Halkası çeren Bazı YeniBenzimidazol Türevlerinin Sentezi**
MENTEŞE E., KARAALİ N., YILMAZ F., ÜLKER S., KAHVECİ B.
1. İlaç Kimyasi, Üretimi, Teknolojisi, Standardizasyonu Kongresi, Antalya, Turkey, 29 - 31 March 2013, (Summary Text)
- XXVII. **Synthesis of Some Novel Benzimidazol Derivatives Via Microwave Irradiation**
KARAALİ N., MENTEŞE E., YILMAZ F., KAHVECİ B.
7thEuroasian Meeting on HETEROCYCLIC CHEMISTRY, 17 - 21 June 2012, pp.37, (Summary Text)
- XXVIII. **Microwave-Assisted Synthesis of Some Novel Benzimidazole Derivatives Containing Imine Funnction**
YILMAZ F., MENTEŞE E., KARAALİ N., KAHVECİ B.
7th Euroasian Meeting on Heterocyclic Chemistry, İstanbul, Turkey, 17 - 21 June 2012, (Summary Text)
- XXIX. **A Convenient Synthesis of Symetric Bisbenzimidazoles**
YILMAZ F., KARAALİ N., MENTEŞE E., KAHVECİ B.
7th Euroasian Meeting on Heterocyclic Chemistry, İstanbul, Turkey, 17 - 21 June 2012, (Summary Text)
- XXX. **Microwave-Assisted Synthesis of Some New 2-substituted perimidine derivatives**
KARAALİ N., YILMAZ F., MENTEŞE E., KAHVECİ B.
7 th Eurasian Meeting on Heterocyclic Chemistry, 17 - 21 June 2012, pp.37, (Summary Text)
- XXXI. **Synthesis of Some New Benzimidazoles Containing 1,2,4-Triazol-3-one Moiety Via Microwave Technique**
MENTEŞE E., KARAALİ N., YILMAZ F., Akkaya E., KAHVECİ B.
7th Euroasian Meeting on Heterocyclic Chemistry, İstanbul, Turkey, 17 - 21 June 2012, (Summary Text)
- XXXII. **Microwave-Assisted Synthesis of Some Benzimidazoles containing Mebendazole Nucleus**
MENTEŞE E., Menteşe M., YILMAZ F., KARAALİ N.
7th Euroasian Meeting on Heterocyclic Chemistry, İstanbul, Turkey, 17 - 21 June 2012, (Summary Text)
- XXXIII. **Microwave-Assisted Synthesis of Some New Perimidine Derivatives**
KARAALİ N., YILMAZ F., MENTEŞE E., KAHVECİ B.
7th Euroasian Meeting on Heterocyclic Chemistry, İstanbul, Turkey, 17 - 21 June 2012, (Summary Text)
- XXXIV. **Microwave Effect on the Synthesis of 1,2,4-Triazol-3-one Derivatives**
YILMAZ F., MENTEŞE E., KARAALİ N., KAHVECİ B.
7th Euroasian Meeting on Heterocyclic Chemistry, İstanbul, Turkey, 17 - 21 June 2012, (Summary Text)
- XXXV. **Bazı Triazol-3-on Türevi Bileşiklerin Mikrodalga DEstekli Sentezi için Etkili Bir Yöntemin Geliştirilmesi**
MENTEŞE E., KARAALİ N., Sosan N., KAHVECİ B.
Uluslararası Katılımlı 25. Ulusal Kimya Kongresi, Turkey, 27 June - 02 July 2011, pp.309, (Summary Text)

Funded Projects

AKYÜZ G., KARAALİ N., Project Supported by Higher Education Institutions, 2,3 Disübstitüe kinazolin-3on türevi bileşiklerin sentezi, karakterizasyonu ve bazı biyolojik özelliklerinin incelenmesi, 2018 - 2019

BALTAŞ N., KARAALİ N., MENTEŞE E., TUBITAK Project, Yeni 2,3-Disübstitüe Kinazolinon-4(3H)-on Türevi Bileşiklerin Sentezi ve Bazı Enzim İnhibisyon Özelliklerinin İncelenmesi, 2017 - 2017

ÜNAL KARAALİ N., BALTAŞ N., Project Supported by Higher Education Institutions, Mannich ve Schiff Bazlı Bazı Yeni Benzimidazol Türevlerinin Sentezi ve Antioksidan Özelliklerinin İncelenmesi, 2015 - 2017

ÜNAL KARAALİ N., YILMAZ F., Project Supported by Higher Education Institutions, Bazı Yeni Benzimidazol Türevi Bileşiklerin Sentezi ve Antitümör Aktivitelerinin İncelenmesi, 2014 - 2016

Metrics

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