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Personal Information

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Education Information

Postgraduate, Karadeniz Technical University, Fen Fakültesi, Biyoloji, Turkey 2023 - Continues

Doctorate, Karadeniz Technical University, Fen Fakültesi, Kimya, Turkey 2015 - 2020

Postgraduate, Karadeniz Technical University, Fen Fakültesi, Kimya, Turkey 2008 - 2010

Undergraduate, Karadeniz Technical University, Fen Fakültesi, Kimya, Turkey 2002 - 2007

Certificates, Courses and Trainings

Vocational Course, Klinik Biyokimyada Nanoteknoloji ve Uygulamaları, Karadeniz Teknik Üniversitesi, 2022

Vocational Course, Gıdalarda aflatoksin analizlerindeki gelişmeler ve gıda mikrobiyolojisinde güncel konular, Tarım ve Köyişleri Bakanlığı, Trabzon İl Kontrol Laboratuvarı Müdürlüğü , 2008

Vocational Course, Mikrobiyolojik analizler ve süt ve süt ürünlerinde mikrobiyolojik analizler, Tarım ve Köyişleri Bakanlığı, Trabzon İl Kontrol Laboratuvarı Müdürlüğü , 2008

Research Areas

Life Sciences, Chemistry

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis, characterization, chemical and biological activities of 4-(4-methoxyphenethyl)-5- benzyl-2-hydroxy-2H-1,2,4-triazole-3(4H)-one phthalocyanine derivatives**
Sarkı G., TÜZÜN B., Ünlüer D., KANTEKİN H.
Inorganica Chimica Acta, vol.545, 2023 (SCI-Expanded)
- II. **Crystal Structure, Computational Study and Hirshfeld Surface Analysis of 4-(4-Methoxyphenethyl)-5-(p-tolyl)-2,4-Dihydro-3H-1,2,4-Triazol-3-One, C18H19N3O2**
Bülbul H., Köysal Y., YILDIRIM S., Ünlüer D., Soylu M. S., Butcher R. J.
Journal of Chemical Crystallography, vol.52, no.4, pp.440-449, 2022 (SCI-Expanded)
- III. **Dual-purpose both peripheral and non-peripheral triazole substituted ZnII, MgII and PbII phthalocyanines: Synthesis, characterization, photophysicochemical and acetylcholinesterase inhibitory properties**
KANTEKİN H., Yalazan H., BARUT B., GÜNGÖR Ö., Ünlüer D., DEMİRBAŞ Ü., ÖZEL A., Durmuş M.
Polyhedron, vol.208, 2021 (SCI-Expanded)
- IV. **Synthesis of nonperipherally tetra-[5-(diethylamino)-2-formylphenoxy] substituted metallophthalocyanines and their electrochemistry**

KELEŞ T., Unluer D., BIYIKLIOĞLU Z., ÜNVER Y.

TURKISH JOURNAL OF CHEMISTRY, vol.45, no.1, pp.17-33, 2021 (SCI-Expanded)

- V. **Crystal Structure and Computational Study of 5-Ethyl-4-(4-Methoxyphenethyl)-4,5-Dihydro-3H-1,2,4-Triazol-3-One and 4-(4-Methoxyphenethyl)-5-Propyl-4,5-Dihydro-3H-1,2,4-Triazol-3-One**
Bülbül H., YILDIRIM S., Köysal Y., Ünlüer D., Soylu M. S., Butcher R.
Crystallography Reports, vol.65, no.7, pp.1133-1137, 2020 (SCI-Expanded)
- VI. **Synthesis, electrochemical and spectroelectrochemical properties of novel soluble peripheral tetra triazole substituted Co-II, Cu-II, (MnCl)-Cl-III and (TiO)-O-IV phthalocyanines**
YALAZAN H., Akyuz D., UNLUER D., KOCA A., KANTEKİN H., SANCAK K.
POLYHEDRON, vol.180, 2020 (SCI-Expanded)
- VII. **Bis benzothiophene Schiff bases: synthesis and in silico-guided biological activity studies**
ÜNVER Y., Unluer D., Direkel S., Durdagi S.
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.4, pp.1164-1189, 2020 (SCI-Expanded)
- VIII. **Synthesis and characterization of metallophthalocyanine with morpholine containing Schiff base and determination of their antimicrobial and antioxidant activities**
UNLUER D., Kamiloglu A. A., Direkel S., Bektas E., KANTEKİN H., SANCAK K.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.900, 2019 (SCI-Expanded)
- IX. **Novel 1,2,4-Triazole Derivatives: Structure, DFT Study, X-Ray Analysis, and Antimicrobial Activity**
Unluer D., Unver Y., Dugdu E., Alpaslan Y. B., Koysal Y., Soylu M. S., Sancak K.
RUSSIAN JOURNAL OF ORGANIC CHEMISTRY, vol.55, no.2, pp.254-261, 2019 (SCI-Expanded)
- X. **The semi-empirical determination of KLL Auger, K-alpha 1 and K-alpha 2 X-ray line widths for sulfur atom in new 1,2,4-triazol compounds containing thiophene ring**
AYLIKCI N. K., Sancak K., Aylikci V., Tirasoglu E., Unluer D., Depci T.
CHEMICAL PHYSICS LETTERS, vol.706, pp.40-46, 2018 (SCI-Expanded)
- XI. **The Investigation of K Shell X-Ray Fluorescence Parameters for Sulphur Atom in Different 1, 2, 4-Triazoles**
Aylikci N. K., ÜNVER Y., Aylikci V., Unluer D., Dugdu E.
SPECTROSCOPY AND SPECTRAL ANALYSIS, vol.37, no.9, pp.2961-2965, 2017 (SCI-Expanded)
- XII. **1,2,4-triazole-5(4H)-one based novel peripherally tetrasubstituted metal-free and metallophthalocyanines: Synthesis, characterization, and electrochemical and spectroelectrochemical properties**
AKTAS A., UENLUEER D., Kobak R. Z. U., ACAR İ., DUGDU E., KOCA A., KANTEKİN H.
INORGANIC AND NANO-METAL CHEMISTRY, vol.47, no.6, pp.830-840, 2017 (SCI-Expanded)
- XIII. **The determination of photophysical and photochemical parameters of novel metal-free, zinc(II) and lead(II) phthalocyanines bearing 1,2,4-triazole groups**
DEMIRBAS Ü., PİŞKİN M., Bayrak R., UNLUER D., DUGDU E., Durmus M., KANTEKİN H.
SYNTHETIC METALS, vol.219, pp.76-82, 2016 (SCI-Expanded)
- XIV. **Synthesis of Novel Symmetrical 1,4-Disubstituted 1,2,3-Bistriazole Derivatives via 'Click Chemistry' and Their Biological Evaluation**
Dugdu E., Unluer D., ÇELİK F., SANCAK K., Karaoglu S. A., ÖZEL A.
MOLECULES, vol.21, no.5, 2016 (SCI-Expanded)
- XV. **Synthesis, characterization, electrochemical and spectroelectrochemical properties of novel peripherally tetra-1,2,4-triazole substituted phthalocyanines**
DEMIRBAS Ü., Kobak R. Z. U., AKCAY H. T., UNLUER D., KOCA A., ÇELİK F., KANTEKİN H.
SYNTHETIC METALS, vol.215, pp.68-76, 2016 (SCI-Expanded)
- XVI. **4-(4-((5-Amino-1,3,4-thiadiazol-2-yl)methoxy) phenyl)-1-((5-amino-1,3,4-thiadiazol-2-yl)methyl)-3-benzyl-1H-1,2,4-triazol-5(H)-one: Synthesis, Characterization and Computational Studies**
UNLUER D., ÜNVER Y., DUGDU E., AKCAY H. T., SANCAK K.
LETTERS IN ORGANIC CHEMISTRY, vol.13, no.8, pp.604-617, 2016 (SCI-Expanded)
- XVII. **Synthesis and Biological Properties of Novel Triazole-Thiol and Thiadiazole Derivatives of the 1,2,4-Triazole-3(5)-one Class**

- DUGDU E., ÜNVER Y., UNLUER D., SANCAK K.
MOLECULES, vol.19, no.2, pp.2199-2212, 2014 (SCI-Expanded)
- XVIII. **Synthesis, structural characterization and comparison of experimental and theoretical results by DFT level of molecular structure of 4-(4-methoxyphenethyl)-3,5-dimethyl-4H-1,2,4-triazole**
DUGDU E., ÜNVER Y., UNLUER D., Tanak H., SANCAK K., Koysal Y., Isik S.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.108, pp.329-337, 2013 (SCI-Expanded)
- XIX. **Spectroscopy studies, X-ray diffraction and DFT, HF calculations of 4-allyl-5-(thiophen-2-ylmethyl)-2H-1,2,4-triazol-3(4H)-one**
Alasalvar C., Soylu M. S., ÜNVER Y., APAYDIN G., UNLUER D.
JOURNAL OF MOLECULAR STRUCTURE, vol.1033, pp.243-252, 2013 (SCI-Expanded)
- XX. **Structure and anion effect on conductivity and K and L shell fluorescence parameters at green solvents**
Aylikci V., ÜNVER Y., Dugdu E., TIRAŞOĞLU E., Aylikci N. K., Unluer D., SANCAK K., Kahoul A., Dogan M., Cengiz E., et al.
CHEMICAL PHYSICS LETTERS, vol.556, pp.365-371, 2013 (SCI-Expanded)
- XXI. **4-(4-Methoxyphenethyl)-3,5-diphenyl-4H-1,2,4-triazole**
Anuradha G., Vasuki G., Unluer D., Birinci E.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.68, 2012 (SCI-Expanded)
- XXII. **Synthesis, characterization, and antioxidant activities of new trisubstituted triazoles**
SANCAK K., ÜNVER Y., UNLUER D., DUGDU E., KOR G., ÇELİK F., BIRINCI E.
TURKISH JOURNAL OF CHEMISTRY, vol.36, no.3, pp.457-466, 2012 (SCI-Expanded)
- XXIII. **4-[2-(4-Methoxyphenyl)ethyl]-3-(thiophen-2-ylmethyl)-1H-1,2,4-triazol-5(4H)-one monohydrate**
GURUMOORTHY A., GOPALSAMY V., Ramamurthi K., UNLUER D., ÇELİK F.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.67, 2011 (SCI-Expanded)
- XXIV. **Crystal Structure 4-(2,4-Dihydroxybenzylideneamino)-5-methyl-2H-1,2,4-triazol-3(4H)-one**
Ustabas R., Unluer D., Kor G.
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.41, no.8, pp.1237-1240, 2011 (SCI-Expanded)
- XXV. **Synthesis, crystal structure, and antioxidant properties of novel 1,2,4-triazol-5-ones containing 3,4-dimethoxyphenyl and 3,4-dihydroxyphenyl moiety**
ÜNVER Y., MEYDANAL S., SANCAK K., UNLUER D., Ustabas R., DUGDU E.
TURKISH JOURNAL OF CHEMISTRY, vol.35, no.2, pp.265-277, 2011 (SCI-Expanded)
- XXVI. **4-[3-(1H-Imidazol-1-yl)propyl]-3-methyl-5-(thiophen-2-ylmethyl)-4H-1,2,4-triazole monohydrate**
Gurumoorthy A., Gopalsamy V., Unluer D., Kor G., Ramamurthi K.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.66, 2010 (SCI-Expanded)
- XXVII. **3,3'-Dimethyl-4,4'-(hexane-1,6-diyl)bis[1H-1,2,4-triazol-5(4H)-one]**
Ustabas R., ÇORUH U., Unluer D., HÖKELEK T., Ermis E.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.66, 2010 (SCI-Expanded)
- XXVIII. **4-(4-Methoxyphenethyl)-3-methyl-1H-1,2,4-triazol-5(4H)-one**
KÖYSAL Y., Tanak H., Unluer D., IŞIK Ş.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.66, 2010 (SCI-Expanded)
- XXIX. **Ethyl 4-(3-ethyl-5-oxo-4,5-dihydro-1H-1,2,4-triazol-4-yl)benzoate**
ÜNVER Y., Koysal Y., Tanak H., UNLUER D., Isik S.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.66, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Synthesis, Biological Activities and Molecular Docking Studies of New Schiff Bases Derivatives**
ÜNLUER D., ÜNVER Y., BEKTAŞ E., DİREKEL Ş., KARAMAN M., KARAMAN H. S.
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.10, no.3, pp.681-694, 2020 (Peer-Reviewed Journal)

II. 4-[2-(4-Hydroxyphenyl)ethyl]-3-propyl-1H-1,2,4-triazol-5(4H)-one

Öztürk Yıldırım S., Butcher R. J., ÜNLÜER BİRİNCİ D., Köysal Y.

Acta Crystallographica Section E: Structure Reports Online, vol.68, no.6, 2012 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. PREPARATION OF NEW IRON-CHELATED COMPOUNDS AND THEIR USE IN FOLIAR NUTRITION APPLICATIONS

ÜNLÜER BİRİNCİ D., Çakmak S. N., Yıldırım E., YILDIZ S. Z., DURMUŞOĞLU S.

9. INTERNATIONAL MAY 19 INNOVATIVE SCIENTIFIC APPROACHES CONGRESS, Samsun, Turkey, 17 May 2023, pp.78-81

II. EVALUATION OF MICRO NUTRITIONAL FERTILIZER POTENTIALS OF EDTA DERIVATIVE IRON COMPLEXES SYNTHETIC WITH COMMERCIAL AMINES

DURMUŞOĞLU S., ÜNLÜER BİRİNCİ D., Çakmak S. N., Yıldırım E., KADIOĞLU A.

9. INTERNATIONAL MAY 19 INNOVATIVE SCIENTIFIC APPROACHES CONGRESS, Samsun, Turkey, 17 May 2023, pp.75-77

Supported Projects

KADIOĞLU A., ÜNLÜER BİRİNCİ D., DURMUŞOĞLU S., ÇAKMAK S. N., Project Supported by Higher Education Institutions, OKSİDATİF STRES TOLERANSINI ARTTIRICI DEMİR GÜBRELERİNİN ÜRETİLMESİ ve GÜBRE POTANSİYELLERİNİN DEĞERLENDİRİLMESİ, 2024 - Continues

Bıyıklıoğlu Z., Baş H., Ünlüer Birinci D., Kadioğlu A., Makbul S., TUBITAK Project, Suda Çözünürlüğü Yüksek Metalli Ftalosiyanın Sentezi, Karakterizasyonu ile Bitkilerde Büyüme Ve Oksidatif Stres Direncine Etkilerinin Araştırılması, 2024 - 2026

Ünlüer Birinci D., Kadioğlu A., Project Supported by Higher Education Institutions, EDDHA Türevi Şelatlama Ajanı Bileşiklerin Fe Zn ve Mn Mikro Besi Elementleri İçeren Komplekslerinin Sentezi ve Tuzluluk-Yüksek pH Koşullarında Gübre Olarak Kullanılabilme Potansiyellerinin Araştırılması, 2023 - 2026

Durmuşoğlu S., Ünlüer Birinci D., Kadioğlu A., TUBITAK Project, Yüksek Sıcaklık Stresinde Arabidopsis Thaliana'da Dıştan Uygulanan Sisteinin, Gliksalaz Yolağı Ve Isı Şok Proteinleri Üzerine Etkisinin Araştırılması, 2023 - 2024

Ünlüer Birinci D., Yıldız S. Z., Çakmak S. N., Project Supported by Higher Education Institutions, Yeni Tip Doğal Yüzey Aktif Madde Türevlerinin Sentezi, Karakterizasyonu ve tarımda Kullanılabilirliğinin İncelenmesi, 2023 - 2024

, Ünlüer Birinci D., Kadioğlu A., Project Supported by Higher Education Institutions, Termofil Heliotropium thermophilum Bitkisine Ait İki Ksiloglukan Endo Transglikozilaz/Hidrolaz Transkriptinin Aşırı İfadesinin Yüksek Sıcaklık, Sıcaklık ile Birlikte Kuraklık ve Tuzluluk Kombine Streslerine Toleransındaki Rolünün Araştırılması, 2020 - 2024

Ünlüer Birinci D., TUBITAK Project, Mikro Besin Gübreleri İçin Yeni Amin Türevlerinin Sentezi, Metal İçeren Şelat Bileşiklerinin Hazırlanması, Biyolojik Etkinliklerinin Ölçülmesi Ve Tarımda Kullanılabilirliklerinin Araştırılması, 2021 - 2023

Sancak K., TUBITAK Project, Patateste Zararlı Biyotik Faktörlerle İle Mücadelede Yeni Jenerasyon Pestisitlerin Kullanımı, 2016 - 2018

Congress and Symposium Activities

9th International Congress on Innovative Scientific Approaches, Attendee, Samsun, Turkey, 2023

9th International Congress on Innovative Scientific Approaches, Attendee, Samsun, Turkey, 2023

5. International Food, Agriculture And Veterinary Sciences Congress, Attendee, Kars, Turkey, 2023

VII Ulusal Anorganik Kimya Kongresi, Attendee, Tekirdağ, Turkey, 2021

32. Ulusal Kimya Kongresi (Uluslararası Katılımlı), Attendee, Eskişehir, Turkey, 2020

VII. Ulusal Anorganik Kimya Kongresi (Uluslararası Katılımlı), Attendee, Çorum, Turkey, 2019
International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018), Attendee, Ankara, Turkey, 2018
Uluslararası Katılımlı 6. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi P100 Maritim Pine Beach Hotel, Attendee, Antalya, Turkey, 2018
International Scientific Conference Forest Science for a Sustainable Forestry and Human Wellbeing in a Changing World” INCDS „Marin Drăcea”(85 Years of Activity Centenary of The Great Union in 1918), Attendee, Bucuresti, Romania, 2018
III. Ulusal Organik Kimya Kongresi, Attendee, Trabzon, Turkey, 2016
III. Ulusal Organik Kimya Kongresi, Attendee, Trabzon, Turkey, 2016
III. Ulusal Organik Kimya Kongresi, Attendee, Trabzon, Turkey, 2016
III. Ulusal Organik Kimya Kongresi, Attendee, Trabzon, Turkey, 2016
27. Ulusal Kimya Kongresi, Attendee, Çanakkale, Turkey, 2015
27. Ulusal Kimya Kongresi, Attendee, Çanakkale, Turkey, 2015
27. Ulusal Kimya Kongresi, Attendee, Çanakkale, Turkey, 2015
27. Ulusal Kimya Kongresi, Attendee, Çanakkale, Turkey, 2015
Anatolian Conference on Synthetic Organic Chemistry, Attendee, Antalya, Turkey, 2014
2. Ulusal Organik Kimya Kongresi, Attendee, Ankara, Turkey, 2014
44th.Word ChemistryCongress, CS-P-02/1120,11-16, Attendee, İstanbul, Turkey, 2013
44th.Word Chemistry Congress, CS-P-02/1117, Attendee, İstanbul, Turkey, 2013
XXV.Ulusal Kimya Kongresi, Attendee, Erzurum, Turkey, 2011
XXV. Uluslararası Katılımlı Ulusal Kimya Kongresi, Attendee, Erzurum, Turkey, 2011
XXV. Uluslararası Katılımlı Ulusal Kimya Kongresi, Attendee, Erzurum, Turkey, 2011
XXV. Uluslararası Katılımlı Ulusal Kimya Kongresi, Attendee, Erzurum, Turkey, 2011
XXV.Ulusal Kimya Kongresi, Attendee, Erzurum, Turkey, 2011
XXIV. Ulusal Kimya Kongresi, Attendee, Zonguldak, Turkey, 2010
XXIV. Ulusal Kimya Kongresi, Attendee, Zonguldak, Turkey, 2010
XXIV. Ulusal Kimya Kongresi, Attendee, Zonguldak, Turkey, 2010
Fındık AR-GE Proje Pazarı Günleri, GİFAM - Fındık Araştırma ve Uygulama Merkezi, Attendee, Giresun, Turkey, 2010

Awards

Ünlüer Birinci D., Durmuşoğlu S., Kadioğlu A., 16. Uluslararası Düşünden Gerçeğine Proje Pazarı, Karadeniz Teknik Üniversitesi Teknoloji Transfer Merkezi, November 2023