Assoc. Prof. Demet GÜLTEKİN

Personal Information

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International Researcher IDs
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Education Information

Doctorate, Ataturk University, Fen Bilimleri, Kimya Organik Kimya, Turkey 1998 - 2005

Dissertations

Doctorate, Norbornen Ve Türevlerinin Değişik Sıcaklıklarda Brominasyonu: Polibromlu Norbornan Ve Norbornenlerin Sentezi , Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Organik Kimya, 2005
Postgraduate, Siklopropan Halka Sistemini İçeren Hidrokarbonların Yüksek Yüksek Sıcaklık Brominasyonu ve Mekanistik İncelemeler , Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Organik Kimya, 1998

Research Areas

Chemistry, Organic Chemistry, Chemistry of Dyes and Pigments, Organic Reaction Mechanisms

Academic Titles / Tasks

Associate Professor, Ataturk University, Aşkale Meslek Yüksekokulu, Makine Ve Metal Teknolojileri, 2022 - Continues
Assistant Professor, Ataturk University, Aşkale Meslek Yüksekokulu, Makine Ve Metal Teknolojileri, 2013 - 2022

Academic and Administrative Experience

Head of Department, Ataturk University, Aşkale Meslek Yüksekokulu, Makine ve Metal Teknolojileri, 2013 - Continues
Assistant Director of Vocational School, Ataturk University, Aşkale Meslek Yüksekokulu, Makine ve Metal Teknolojileri, 2016 - 2020

Courses

İŞ SAĞLIĞI VE GÜVENLİĞİ, Associate Degree, 2021 - 2022
Genel Kimya-II, Associate Degree, 2020 - 2021
Ametal Kimyası, Associate Degree, 2019 - 2020

Metalografi-I, Associate Degree, 2020 - 2021
Anorganik Kimya, Associate Degree, 2020 - 2021
Associate Degree, 2019 - 2020
Metalografi ve Malzeme Muayenesi Laboratuarı-II , Associate Degree, 2019 - 2020
Korozyon ve Korozyondan Korunma, Associate Degree, 2020 - 2021
Associate Degree, 2020 - 2021
Genel Kimya-I, Associate Degree, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Bromination of endo-7-norbornene derivatives revisited: failure of a computational NMR method in elucidating the configuration of an organic structure**
Gültekin D., Daştan A., Taşkesenligil Y., Kazaz C., Zorlu Y., Balci M.
BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY, vol.19, pp.764-770, 2023 (SCI-Expanded)

II. **Bay- and peri-functionalized donor-acceptor perylene monoimides via nitration and nucleophilic substitution/reduction pathway**
Altaş A., Gültekin D., Acar M., Cücü E., Karatay A., Elmalı A., Atalay A., Demircan Ç., Bozkaya U., Kazaz C., et al.
MATERIALS TODAY CHEMISTRY, vol.24, 2022 (SCI-Expanded)

III. **Aromatic stacking and the self-assembly of perylene monoimide diester homodimers**
Gultekin D. D.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.426, 2022 (SCI-Expanded)

IV. **Triplet Distribution in a Symmetrical Zinc(II) Porphyrin-BODIPY Pentameric Array**
Bozdemir Ö. A., Gultekin D., Harriman A.
Journal of Physical Chemistry A, vol.124, no.51, pp.10736-10747, 2020 (SCI-Expanded)

V. **Food composition of fruits in Turkey: research outputs from the new Turkish Food Composition Database, TurKomp**
Loker G. B., Yaman M., Cevikkalp S. A., BAŞARAN N., Ozalp C., Unlu S. G., Gultekin D., ÇALIK S., ÖZTÜRK M., ALTAY H., et al.
Fruits, vol.71, no.6, pp.419-431, 2016 (SCI-Expanded)

VI. **Mutagenic assessment of three synthetic pyridine-diaryl ketone derivatives**
Ozkan H., Gultekin D., SEZEN S., Ozgeris B., GÜLLÜCE M., Tumer F.
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.31, no.12, pp.1252-1257, 2015 (SCI-Expanded)

VII. **The first and efficient synthesis of some of the polyhalogenated benzobarrelenes: unusual formation of a benzosemibullvalene derivative**
SENGUL M. E., GULTEKIN D., Essiz S., ŞAHİN E., DAŞTAN A.
TETRAHEDRON, vol.65, no.25, pp.4859-4865, 2009 (SCI-Expanded)

VIII. **Bromination of Tetrachlorobenzobarrelene: Polyhalogenated Benzobicyclics**
SENGUEL M. E., GUELTEKIN D., Essiz S., DAŞTAN A.
TURKISH JOURNAL OF CHEMISTRY, vol.33, no.1, pp.79-86, 2009 (SCI-Expanded)

IX. **Bromination of norbornene derivatives: synthesis of brominated norbornanes and norbornenes**
GUELTEKIN D., TAŞKESENLİGİL Y., DAŞTAN A., Balci M.
TETRAHEDRON, vol.64, no.19, pp.4377-4383, 2008 (SCI-Expanded)

X. **High Temperature Bromination Part 22 Bromination of 1a 2 7 7a Tetrahydro 1H Cyclopropa B Naphthalene**
GÜLTEKİN D., DEMET g., TAŞKESENLİGİL Y., BALCI M.
Tetrahedron, vol.63, pp.8151-8156, 2007 (SCI-Expanded)

XI. **Excellent and convenient procedures for reduction of benzene and its derivatives**
ALTUNDAS A., Menzek A., Gultekin D., KARAKAYA M.
TURKISH JOURNAL OF CHEMISTRY, vol.29, no.5, pp.513-518, 2005 (SCI-Expanded)

XII. **A new, safe and convenient procedure for reduction of naphthalene and anthracene: synthesis of**

tetralin in a one-pot reaction
Menzek A., ALTUNDAS A., Gultekin D.
JOURNAL OF CHEMICAL RESEARCH-S, no.11, pp.752-753, 2003 (SCI-Expanded)

Articles Published in Other Journals

I. **Bimolecular Interactions Between Graphene Oxide and a New Aza-BODIPY Derivative**
ARIK M., BAŞAR S. S., GÜLTEKİN D., ŞEN S.
Journal of The Institute of Science and Technology (JIST), vol.11, no.4, pp.2916-2925, 2021 (Peer-Reviewed Journal)

II. **Eco-friendly synthesis of nano copper and its use in fenton-like reactions for methylene blue degradation**
GÜLTEKİN D., ALAYLI A., NADAROĞLU H.
International Journal of Chemistry and Technology, vol.4, no.1, pp.71-78, 2020 (Peer-Reviewed Journal)

III. **Synthesis and Characterization of Nano-Strontium Oxide (SrO) Using Erzincan Cimin Grape (Vitis vinifera, Cimin)**
ALAYLI GÜNGÖR A., NADAROĞLU H., GÜLTEKİN D.
Chemical Science International Journal, vol.26, no.3, pp.1-7, 2019 (Peer-Reviewed Journal)

IV. **Biosynthesis and Characterization of Copper Oxide Nanoparticles using Cimin Grape (Vitis vinifera cv.) Extract**
GÜLTEKİN D., NADAROĞLU H., ALAYLI GÜNGÖR A., KİSHALI N.
International Journal of Secondary Metabolite, vol.4, 2017 (Peer-Reviewed Journal)

V. **Synthesis of Copper Nanoparticles Using a Different Method Determination of Their Antioxidant and Antimicrobial Activity**
GÜLTEKİN D., ALAYLI GÜNGÖR A., ÖNEM H., BABAGİL A., NADAROĞLU H.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.3, pp.623-636, 2016 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Synthesis of New Perylene Derivatives**
GÜLTEKİN D.
Hoca Ahmet Yesevi 2. Uluslararası Bilimsel Araştırmalar Kongresi, 6 - 08 December 2019

II. **YEŞİL SENTEZ METODU İLE STRONSİYUM OKSİT(SrO)NANOPARTİKÜLLERİN SENTEZİ VE KARAKTERİZASYONU**
GÜLTEKİN D., ALAYLI GÜNGÖR A., NADAROĞLU H.
IV. ULUSLARARASI MESLEKİ VE TEKNİK BİLİMLER KONGRESİ, 7 - 09 December 2018

III. **Synthesis of Novel Perylene Di- and Tetraesters**
GÜLTEKİN D., BOZDEMİR Ö. A.
4. Organıc Chemistri Congress, 4 - 07 October 2018, pp.118-120

IV. **Determination of glucose by peroxidase mimic iron oxide nanoparticles**
KİSHALI N., NADAROĞLU H., ALAYLI GÜNGÖR A., GÜLTEKİN D.
22nd International Biomedical Science Technology Symposium, 12 - 14 May 2017

V. **BIOSYNTHESIS AND CHARACTERIZATION OF COPPER OXIDE NANOPARTICLES USING CIMIN GRAPE (VITIS VINIFERA CV.) EXTRACT**
GÜLTEKİN D., NADAROĞLU H., ALAYLI GÜNGÖR A., KİSHALI N.
I. INTERNATIONAL CONGRESS on MEDICINAL and AROMATIC PLANTS, 10 - 12 May 2017

VI. **REMOVAL OF METHYLENE BLUE FROM AQUEOUS SOLUTION USING FENTON REACTION AND COPPER OXIDENANOPARTICLES OBTAINED BY ENDEMIC CIMIN GRAPE**
GÜLTEKİN D., ALAYLI GÜNGÖR A., NADAROĞLU H., ÖZNÜLÜER T.

I. International Congress on Medicinal and Aromatic Plants, 10 - 12 May 2017

VII. **The First and Efficient Synthesis of Some of The Polyhalogenated Benzobarrelenes: Unusual Formation of A Benzosemibullvalene Derivative**
EŞSİZ S., ŞENGÜL E., GÜLTEKİN D., DAŞTAN A.
44. World Chemistry Congress, 11 - 16 August 2016

VIII. **Reduction of aromatic compounds under mild conditions (Economcally safety easily)**
MENZEK A., ALTUNDAŞ A., GÖKMEN KARAKAYA M., GÜLTEKİN D.
2. Arge Proje Pazarı, Turkey, 18 - 19 September 2012

IX. **Reductions of Aromatic Compounds Under Mild Conditions**
MENZEK A., ALTUNDAŞ A., GÖKMEN KARAKAYA M., KAYA A. A., GÜLTEKİN D.
International Conference on Organic Chemistry, 5 - 09 June 2007

X. **Bromination of 7-Bromonorbornene: Polybrominated Norbornanes and Norbornenes**
GÜLTEKİN D., TAŞKESENLİGİL Y., DAŞTAN A., BALCI M.
International Conference on Organic Chemistry, 5 - 09 June 2007

Supported Projects

Alanyalıoğlu M., Dağcı Kıranşan K., Topçu E., Erçarıkcı E., Gültekin D., TUBITAK Project, Gradient yapıya sahip, perilen ve porfirin türevi supramolekül modifiye grafen esaslı materyaller kullanılarak sürdürülebilir su arıtma sistemi uygulamaları, 2021 - 2024

Gültekin D., Bozdemir Ö. A., Karatay A., TUBITAK Project, Dipirrin-BODIPY Esaslı Multikromoforik Yapıların Sentezi, Enerji Transfer Mekanizmalarının Ve İki Foton Soğurma Özelliklerinin İncelenmesi, 2022 - 2023

Gültekin D., Arık M., Alanyalıoğlu M., TUBITAK Project, Yeni Perilen Türevlerinin Sentezi, Grafen Oksit ile Kompozitlerinin Hazırlanması, Fotofiziksel Özelliklerinin İncelenmesi ve Elektrokimyasal Sensör Potansiyellerinin Araştırılması, 2022 - 2023

Bozdemir Ö. A., Gültekin D., TUBITAK Project, 1. Ve 2. Jenerasyon Tip-Iii-B Rotaksan Dendrimerlerinin Sentezi, 2021 - 2022

GÜLTEKİN D., ARIK M., ŞEN S., ŞİNOFOROĞLU M., Project Supported by Higher Education Institutions, Perilen Monoimiddiester Türevlerinin Sentezi ve Agregasyon Özelliklerinin İncelenmesi, 2018 - 2019

ALAYLI GÜNGÖR A., KİSHALI N., GÜLTEKİN D., NADAROĞLU H., TURGUT E., Project Supported by Higher Education Institutions, Bazı Metal Oksit Cd, Sr ve Ni Nanopartiküllerin Yeşil Sentez Metodu İle Eldesi ve Antimikrobiyal Aktivitesinin Belirlenmesi, 2018 - 2019

Gültekin D., Biringen Löker G., TUBITAK Project, Ulusal Gıda Kompozisyonunun Belirlenmesi ve Yaygın-Sürekli Paylaşım Sisteminin Oluşturulması, 2008 - 2013

Patent

Gültekin D., TURGUT E., 9- PİROLİDİN BİLEŞİĞİNİN FOTODEDEKTÖR OLARAK KULLANIMI, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 11845 , Standard Registration, 2022

Metrics

Publication: 27
Citation (WoS): 68
Citation (Scopus): 71
H-Index (WoS): 4
H-Index (Scopus): 4

Non Academic Experience

HALK SAĞLIĞI LABORATUVARI