

ZEKERİYA BIYIKLIOĞLU

PROF.

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAG-4523-2019

ScopusID: 15069066100

Yoksis Researcher ID: 16859



Biography

Zekeriya BIYIKLIOĞLU, 15 Kasım 1980 tarihinde Akçaabat'ta doğdu. İlk, orta ve lise öğrenimini Akçaabat'ta tamamladıktan sonra 2002 yılında KTÜ Fen-Edebiyat Fakültesi Kimya Bölümünü birincilikle tamamladı. 2005 Yılında KTÜ Fen Bilimleri Enstitüsü Kimya Anabilimdalında yüksek lisans ve 2009 yılında doktora eğitimini tamamladı. 15 Ocak-03 Temmuz 2004 tarihleri arasında ERASMUS programı ile Belçika'nın Gent Üniveristes'i'nde bulundu. 2006-2009 Yılları arasında Giresun Üniveristes'i'nde Arş. Gör. olarak, 2009-2011 yılları arasında KTÜ Maçka MYO'da Yrd. Doç. olarak, 2012-2018 yılları arasında KTÜ Kimya Bölümünde Doç.Dr. olarak görev yapmıştır. Halen KTÜ Kimya Bölümünde Prof. Dr. olarak görevine devam etmektedir.

Ftalosiyanın bileşiklerinin ve suda çözünebilen türevlerinin sentezi, fotodinamik terapi (PDT) ile kanser tedavisinde kullanılabilirlikleri, DNA etkileşimleri, enzim inhibisyonu, antikanser etkileri, elektrokromik özellikleri, elektrokimyasal sensör özellikleri gibi alanlarda bilimsel faaliyetlerini sürdürmektedir. Bu alanlarda bugüne kadar SCI, SCI-Expanded indekslerine giren **48** farklı dergide toplamda **189** adet makalesi yayımlanmıştır. Bu makalelerine bugüne kadar Web of Science'a göre **3143**, Scopus'a göre **3186**, Google Scholar'a göre **3882** adet atıf yapılmıştır ve *h*-indeksi Web of Science'a göre **33** Scopus'a göre **34**, Google Scholar'a göre **37**'dir. Bunun yanı sıra ulusal ve uluslar arası kongrelerde toplamda **137** adet bildirisi bulunmaktadır. **Türk Patent ve Marka Kurumu** tarafından tescillenmiş "**DNA ile etkileşebilen, topoizomeraz inhibisyonu gösteren ve antikanser etkili suda çözünebilen, agregasyon göstermeyen yeni bir silisyum ftalosiyanın bileşiği ve sentez yöntemi**", "**Suda çözünebilen agregasyon göstermeyen akciğer, karaciğer, meme ve melanoma kanser türlerine karşı in vitro antikanser etkili yeni bir silisyum ftalosiyanın bileşiği**" ve "**Asetilkolinesteraz inhibitör etkili suda çözünür kobalt(II) ftalosiyanın bileşikleri ve bunların sentez yöntemi**" isimli **3** adet Ulusal patenti ve "**Water-soluble, Non-aggregated Silicon Phthalocyanine Compounds Having in Vitro Anticancer Effect Against Cancer Types of Lung, Liver, Brest and Melanoma**" isimli **1** adet Uluslararası patenti bulunmaktadır. Bugüne kadar **5** yüksek lisans tezi ve **2** doktora tezi yönetmiş olup halen **3** doktora öğrencisine danışmanlık yapmaktadır.

Standford Üniversitesi tarafından 2020 yılında yapılan araştırmaya göre, dünyada ilk %2'lik dilime giren 100.000 araştırmacı içerisinde Türkiye Cumhuriyeti üniversitelerinden **195** Türk bilim insanının yer aldığı dünyadaki en iyi bilim

insanları listesine giren Prof. Dr. Zekeriya BIYIKLIOĞLU, kendi bilimsel çalışma alanında (Inorganic & Nuclear Chemistry) dünyada **771.** Sırada yer alma başarısını göstermiştir.

Ayrıca yukarıda bahsi geçen bilimsel konularla ilgili;

- TÜBİTAK-1001 programı kapsamında 3 projede yürütücü ve 1 projede araştırmacı olarak,
- TÜBİTAK-2515 COST programı kapsamında 1 projede araştırmacı olarak,
- TÜBİTAK-3501 programı kapsamında 1 projede araştırmacı olarak,
- TÜBİTAK-1002 programı kapsamında 1 projede yürütücü olarak ve 1 projede araştırmacı olarak,
- TÜBİTAK-2237-A Bilimsel Eğitim Etkinliklerini Destekleme programı kapsamında 1 projede yürütücü olarak,
- TÜBİTAK 1507 KOBİ AR-GE programı kapsamında 1 projede danışman olarak,
- TÜSEB-A GRUBU ACİL AR-GE programı kapsamında 1 projede araştırmacı olarak,
- KTÜ BAP birimi tarafından desteklenen 12 projede yürütücü, 13 projede ise araştırmacı olarak yer almıştır.

Prof. Dr. Zekeriya BIYIKLIOĞLU sırası ile;

- 2009 yılında KTÜ Fen Bilimleri Enstitüsü "Lisansüstü Başarı Teşvik Ödülü"ne,
- 2014 yılında "Journal of Organometallic Chemistry" dergisinde yayınlanan makalesi 2012-2013 yılları arasında en çok atıf alan makale ödülüne,
- 2016 yılında "KTÜ 2015 Yılı Fen ve Mühendislik Alanı Akademik Ödülü"ne,
- 2017 yılında Prof. Dr. Nazmi ÖZER Bilim Ödülüne,
- 2017 yılında 28. Uluslararası Biyokimya Kongresi En İyi Poster Bildiri Ödülüne,
- 2022 yılında "KTÜ 2021 Yılı Fen Alanı Akademik Ödülü"ne
- 2022 yılında 33. Uluslararası Biyokimya Kongresi En İyi Poster Bildiri Ödülüne
- 2023 yılında TEKNOFEST2023-Uluslararası Buluş Fuarı Altın Madalya Ödülüne
- 2023 yılında "KTÜ 2022 Yılı Fen Alanı Akademik Ödülü"ne
- 2023 yılında 1st International Congress on Solutions in Science (INSCORE), En İyi Sözlü Sunum (2.lık) Ödülü'ne
- 2024 yılında "KTÜ 2024 Yılı Lisansüstü Tez (Yüksek Lisans) Ödülü"ne layık görülmüştür.

Prof. Dr. Zekeriya BIYIKLIOĞLU evli olup Atakan, Emrah ve Mahir isimli üç çocuk babasıdır.

Learning Knowledge

Doctorate
2005 - 2009

Karadeniz Technical University, -, Kimya, Turkey

Postgraduate
2002 - 2005

Karadeniz Technical University, -, Kimya, Turkey

Undergraduate
1998 - 2002

Karadeniz Technical University, Fen Edebiyat Fakültesi, Kimya, Turkey

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, Ufuk Avrupa Programına Yönelik Teorik ve Uygulamalı Proje Hazırlama Eğitimi, PWC-KTÜ-TTM, 2021

Education Management and Planning, Dergipark ULAKBİM Dergi Sistemleri Eğitimi, TÜBİTAK ULAKBİM, 2018

Education Management and Planning, Editör ve Yazar 6. Eğitim semineri, TÜBİTAK ULAKBİM, 2015

Dissertations

Doctorate, Makrosiklik Grup İhtiva Eden Yeni Çözünür Ftalosiyanınların Sentezi, Karakterizasyonu ve Elektrokimyasal Özelliklerinin İncelenmesi, Karadeniz Technical University, -, Kimya, 2009

Postgraduate, 18 Üyeli Makrosiklik Grup Taşıyan Yeni Dioksim Sentezi Ve Kompleks Oluşumunun İncelenmesi, Karadeniz Technical University, -, Kimya, 2005

Academic Titles / Tasks

Professor
2018 - Continues

Karadeniz Technical University, Fen Fakültesi, Kimya

Associate Professor
2012 - 2018

Karadeniz Technical University, Fen Fakültesi, Kimya

Assistant Professor
2009 - 2011

Karadeniz Technical University, Maçka Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri

Lecturer
2009 - 2009

Karadeniz Technical University, Maçka Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri

Research Assistant
2006 - 2009

Giresun University, Fen Edebiyat Fakültesi, Kimya

Supported Projects

1. BIYIKLIOĞLU Z., YALÇIN C. Ö., ALTUN Y., BAŞ H., KELEŞ T., AKKAYA D., Project Supported by Higher Education Institutions, Aksiyal Periferal NonPeriferal Antrakinin Sübstitüe Silisyum ve Çinko Ftalosiyanın Sentezi DNA Etkileşimleri ve Akciğer Kolorektal Kanser Hücre Hatlarına Karşı in vitro Sitotoksik ve Fotodinamik Terapi Etkilerinin İncelenmesi, 2023 - Continues
2. BIYIKLIOĞLU Z., KANTEKİN H., KESMEZ Ö., BAŞ H., AKKOL Ç., YALAZAN H., FAZLI H., SAKA E. T., ÖZTÜRMEYEN B. A., KELEŞ T., Project Supported by Higher Education Institutions, Çevre Dostu Yeni Makromoleküller ve Fotokatalitik Uygulamaları, 2022 - Continues
3. BIYIKLIOĞLU Z., ÖZEL A., TUBITAK Project, Agregasyon Göstermeyen, Suda Çözünür Aksiyal Disüstitüe Yeni Silisyum Ftalosiyanın ve Naftalosiyanın Sentezi, DNA Bağlanma, DNA Kesim, Topoizomaz İnhibitör Aktivitelerinin ve Bazı İnsan Kanser Hücrelerine Karşı Sitotoksitelerinin İncelenmesi, 2017 - Continues
4. Biyıkhoğlu 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
5. Biyıkhoğlu Z., Bekircan O., Osmanoğulları S. C., Keleş T., Project Supported by Higher Education Institutions, Elektrokimyasal Glikoz Biyosensör Uygulamaları İçin Yeni Aksiyal Disüstitüe Silisyum Ftalosiyanınlar, 2023 - 2025
6. BARUT B., ALTUN Y., BIYIKLIOĞLU Z., ÖZEL A., YALÇIN C. Ö., BARUT E. N., ENGİN S., AKKAYA D., Project Supported by Higher Education Institutions, Silisyum Ftalosiyanın Bileşiklerinin Kolorektal Kanser Hücre Hattına Karşı Fotodinamik Terapi Etkilerinin ve Wnt Yolağı ile İlişkinin Araştırılması, 2022 - 2024
7. BIYIKLIOĞLU Z., KELEŞ T., ŞAHİN H., BAŞ H., Project Supported by Higher Education Institutions, Agregasyon Göstermeyen Yeni Silisyum Ftalosiyanınların Kuaternize Türevlerinin Sentezi ve Asetilkolinesteraz Enzim İnhibisyonlarının İncelenmesi, 2020 - 2022
8. DİLBER G., BIYIKLIOĞLU Z., NAS A., Project Supported by Higher Education Institutions, Nonperiferal ve Periferal Pozisyonda Piperidin Grubu İçeren Yeni Ftalosiyanın Bileşiklerinin Sentezi ve Elektrokimyasal Özelliklerinin İncelenmesi, 2019 - 2022
9. BIYIKLIOĞLU Z., ARSLAN T., ŞENTÜRK M., Project Supported by Higher Education Institutions, ALZHEIMER HASTALIĞININ TEDAVİSİNDE KULLANILACAK SUDA ÇÖZÜNÜR YENİ BİR KOBALT II FTALOSİYANİN BİLEŞİĞİ, 2019 - 2020
10. BIYIKLIOĞLU Z., BARUT B., ÖZEL A., BAŞ H., KELEŞ T., Project Supported by Higher Education Institutions, ULUSLARARASI - SUDA ÇÖZÜNÜR AGREGASYON GÖSTERMEYEN AKCİĞERKARACİĞER MEME VE MELANOMA KANSER TÜRLERİNE KARŞI IN VITRO ANTİKANSER ETKİLİ YENİ BİR SİLİSYUM FTALOSİYANİN BİLEŞİĞİ, 2019 - 2020
11. ÖZEL A., BIYIKLIOĞLU Z., DEMİRBAŞ Ü., YALÇIN C. Ö., BARUT B., ÇOBAN Ö., KELEŞ T., BAŞ H., ŞİRİN İ., Project Supported by Higher Education Institutions, Suda Çözünür BODIPY Bileşiklerinin Sentezi Fotokimyasal Özelliklerinin ve in vitro Hüresel Etki Mekanizmalarının İncelenmesi, 2019 - 2020
12. BIYIKLIOĞLU Z., KELEŞ T., ÖZEL A., BARUT B., Project Supported by Higher Education Institutions, SUDA ÇÖZÜNÜR AGREGASYON GÖSTERMEYEN AKCİĞER KARACİĞER MEME VE MELANOMA KANSER TÜRLERİNE KARŞI IN VITRO ANTİKANSER ETKİLİ YENİ BİR SİLİSYUM FTALOSİYANİN BİLEŞİĞİ, 2018 - 2020
13. BIYIKLIOĞLU Z., BAŞ H., ÖZEL A., BARUT B., Project Supported by Higher Education Institutions, DNA İLE ETKİLEŞEBİLEN TOPOİZOMERAZ İNHİBİSYONU GÖSTEREN VE ANTİKANSER ETKİLİ SUDA ÇÖZÜNÜR AGREGASYON GÖSTERMEYEN YENİ BİR SİLİSYUM FTALOSİYANİN BİLEŞİĞİ VE SENTEZ YÖNTEMİ, 2018 - 2020
14. ÇOBAN Ö., BIYIKLIOĞLU Z., ÖZEL A., YALÇIN C. Ö., BARUT B., Project Supported by Higher Education Institutions, Erlotinib ve Ferrosen türevli Ftalosiyanın İçeren Sığır Serum Albumini (BSA) Kaplı Lipozom Formülasyonlarının

Geliştirilmesi ve Antitümoral Aktivitesinin İncelenmesi, 2018 - 2019

15. BIYIKLIOĞLU Z., BAŞ H., Project Supported by Higher Education Institutions, PERİFERAL, NONPERİFERAL TETRA SÜBSTİTÜE REDOKS AKTİF KOBALT VE MANGAN METALLİ FTALOSİYANİNLER VE ELEKTROPOLİMERİZASYON ÖZELLİKLERİ, 2018 - 2019
16. NAS A., DİLBER G., BIYIKLIOĞLU Z., Project Supported by Higher Education Institutions, Klorokinolin Sübstütie Grupları İçeren Redoks Aktif ve İnaktif Merkezli Ftalosiyanınların Elektrokimyasal Özelliklerinin İncelenmesi, 2018 - 2019
17. Bıyıklioğlu Z., Arslan T., Şentürk M., TUBITAK Project, Klik Reaksiyonuyla Yeni 1,2,3-triazol-Sübstütie Metalsiz, Metalli Ftalosiyanınların ve Kuaternize Türevlerinin Sentezi ve Asetilkolinesteraz Enzimi Üzerine Aktivitelerinin İncelemesi, 2017 - 2019
18. BIYIKLIOĞLU Z., BARUT B., Project Supported by Higher Education Institutions, Agregasyon Göstermeyen Silisyum Ftalosiyanınların Sentezi ve Kolinesteraz Enzim İnhibisyonlarının İncelenmesi, 2017 - 2018
19. BIYIKLIOĞLU Z., Project Supported by Higher Education Institutions, Suda Çözünebilen Yeni Metalliftalosiyanınların Sentezi ve DNA Bağlanma DNA Kesim Özelliklerinin İncelenmesi, 2016 - 2017
20. NAS A., KANTEKİN H., BIYIKLIOĞLU Z., FANDAKLI S., Project Supported by Higher Education Institutions, TETRA PİRAZOL SÜBSTİTÜE GRUP İÇEREN METALLİ VE METALSİZ FTALOSİYANİNLERİN SENTEZİ KARAKTERİZASYONU VE ELEKTROKİMYASAL ÖZELLİKLERİNİN İNCELENMESİ, 2016 - 2017
21. Bıyıklioğlu Z., Koca A., TUBITAK Project, Metalliftalosiyanın Temelli İletken Redoks Aktif Polimerlerin Geliştirilmesi ve Elektrokimyasal Pestisit Sensörü Olarak Kullanımları, 2015 - 2017
22. Acar İ., Bıyıklioğlu Z., TUBITAK Project, Periferal Tetra Sübstütie Fonksiyonel Gruplar İçeren Metalsiz, Metalli Ftalosiyanınların Sentezi ve Elektrokimyasal Özelliklerinin İncelenmesi, 2015 - 2016
23. Bıyıklioğlu Z., TUBITAK Project, Aksiyal Sübstütie Yeni Silisyum Ftalosiyanınların Sentezi Karakterizasyonu ve Elektrokimyasal Özelliklerinin İncelenmesi, 2014 - 2015
24. BIYIKLIOĞLU Z., Project Supported by Higher Education Institutions, Suda Çözünebilen Yeni Metalsiz ve Metalli Ftalosiyanınların Sentezi, Karakterizasyonu, Elektrokimyasal ve Spektroelektrokimyasal Özelliklerinin İncelenmesi, 2013 - 2015
25. BIYIKLIOĞLU Z., Project Supported by Higher Education Institutions, Periferal ve Non-Periferal Tetra Sübstütie Ftalosiyanınların Sentezi, Karakterizasyonu ve Elektrokimyasal Özelliklerinin İncelenmesi, 2012 - 2015
26. BIYIKLIOĞLU Z., KANTEKİN H., DURMUŞ M., TUBITAK Project, SUDA ÇÖZÜNEBİLEN YENİ ÇİNKO FTALOSİYANİNLERİN SENTEZİ, KARAKTERİZASYONU VE FOTODİNAMİK TERAPİ ÖZELLİKLERİNİN İNCELENMESİ, 2012 - 2014
27. BIYIKLIOĞLU Z., Project Supported by Higher Education Institutions, Fotodinamik Terapi Amaçlı Suda Çözünen Ftalosiyanınların Sentezi ve Karakterizasyonu, 2011 - 2013
28. Kantekin H., Bıyıklioğlu Z., TUBITAK Project, Karışık Donörlü Makrosiklik ve Makrobisiklik Substitue Gruplar İçeren Ftalosiyanın, Porfirazinlerin Sentezi, Karakterizasyonu Elektrokimyasal ve Biyolojik Aktivite Özelliklerinin İncelenmesi, 2007 - 2009

Awards

1. Bıyıklioğlu Z., Teknofest2023-Uluslararası Buluş Fuarı Altın Madalya Ödülü, Teknofest, April 2023
2. Barut B., Altun Y., Akkaya D., Barut E. N., Baş H., Yalçın C. Ö., Bıyıklioğlu Z., Uluslararası Biyokimya Kongresi 2022 // 33. Ulusal Biyokimya Kongresi En İyi Poster Ödülü, Uluslararası Biyokimya Kongresi 2022 // 33. Ulusal Biyokimya Kongresi, October 2022
3. Bıyıklioğlu Z., KTÜ 2022 Yılı Fen Alanı Akademik Ödülü, Karadeniz Teknik Üniversitesi, May 2022
4. BARUT B., BIYIKLIOĞLU Z., Prof. Dr. Nazmi ÖZER Bilim Ödülü (3.lük), Türk Biyokimya Derneği, October 2018
5. BIYIKLIOĞLU Z., BARUT B., ÖZEL A., Uluslararası Biyokimya Kongresi En İyi Poster Bildiri Ödülü, Uluslararası Biyokimya Kongresi 2017, September 2017
6. BARUT B., BIYIKLIOĞLU Z., ÖZEL A., Prof.Dr. Nazmi ÖZER Bilim Ödülü (2.lük), Türk Biyokimya Derneği, September 2017
7. BIYIKLIOĞLU Z., 2015 Yılı Fen ve Mühendislik Alanı Akademik Ödülü, Karadeniz Teknik Üniversitesi, May 2016

8. BIYIKLIOĞLU Z., ACAR İ., 2012-2013 Yılı en çok atf alan makale ödülü, Journal of Organometallic Chemistry, October 2014
9. BIYIKLIOĞLU Z., Lisansüstü Başarı Teşvik Ödülü (Birincilik), Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü, May 2009

Scholarships

Erasmus Bursu (Gent University-BELGIUM), University, 2004 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

1. **The synthesis and therapeutic effect of silicon(IV) phthalocyanines for colorectal cancer cells in photodynamic therapy by altering Wnt/13-catenin and apoptotic signaling**
BARUT B., BARUT E. N., YALÇIN C. Ö., Ali Y. A., AKKAYA D., SEYHAN G., ENGİN S., BIYIKLIOĞLU Z.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.453, 2024 (SCI-Expanded)
2. **Non-aggregated and water soluble non-peripherally octa substituted Co(II) and Cu(II) phthalocyanines: Synthesis and α -glucosidase inhibitory effects**
BIYIKLIOĞLU Z., Bas H., SEYHAN G., BARUT B.
JOURNAL OF INORGANIC BIOCHEMISTRY, vol.257, 2024 (SCI-Expanded)
3. **Two-dimensional phthalocyanine-based molecular additives realize efficient hole transport and enhanced ion immobilization for durable perovskite solar cells**
Liao Z., BIYIKLIOĞLU Z., Yang L., Baş H., Dong P., Hu J., Deng J., Li X., Gao Y., Güzel E., et al.
Chemical Engineering Journal, vol.492, 2024 (SCI-Expanded)
4. **Nonperipherally and peripherally substituted water-soluble magnesium (II) phthalocyanines and their DNA binding, nuclease activities**
BARUT B., SEYHAN G., KELEŞ T., Kulein B., BIYIKLIOĞLU Z.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.38, no.5, 2024 (SCI-Expanded)
5. **Peripherally tetra-substituted zinc (II) phthalocyanine sensitized TiO₂ composite: Monitoring with tandem LC/MS and photocatalytic degradation of amoxicillin**
Keşir M. K., BIYIKLIOĞLU Z.
Journal of Organometallic Chemistry, vol.1005, 2024 (SCI-Expanded)
6. **New fluorescent manganese(III) phthalocyanines bearing non-peripherally octa-(3-pyridin-3-ylpropoxy) and (4-pyridin-3-ylpropoxy) for the sensitive determination of Pd²⁺ in real water samples**
BIYIKLIOĞLU Z., Çekirge E., Baş H., ÖZBEK N., Ocak Ü., OCAK M.
Inorganic Chemistry Communications, vol.159, 2024 (SCI-Expanded)
7. **AChE/BuChE inhibitory, DNA nuclease and cytotoxic properties of axially 5-[6-(benzyloxy)-2H-1,3-benzoxazin-3(4H)-yl]pentanoxy and 5-[6-(hexyloxy)-2H-1,3-benzoxazin-3(4H)-yl]pentanoxy substituted silicon phthalocyanines**
Biyiklioğlu Z., Seyhan G., Öztürmen B. A., Kolci K., Reis R., Barut B.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.1003, 2023 (SCI-Expanded)
8. **Synthesis of water soluble cobalt(II), copper(II) phthalocyanines and their usage as a catalyst in the photooxidation of benzyl alcohol in biphasic catalysis**
Arin Öztürmen B. A., Akkol Ç., Saka E. T., Biyiklioğlu Z.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.158, 2023 (SCI-Expanded)
9. **An investigation on photocatalytic and α -amylase inhibitory activities of Co (II) and Zn(II) phthalocyanines**
Tugba Saka E. T., Cakmak U., Akkol C., BIYIKLIOĞLU Z.
POLYHEDRON, vol.243, 2023 (SCI-Expanded)

10. **Highly water soluble axial disubstituted silicon(IV) phthalocyanine, naphthalocyanine: Synthesis, DNA interaction and anticancer effects against human lung (A549), liver (SNU-398), melanoma (SK-MEL128), prostate (DU-145), breast (BT-20) cell lines**
Baş H., Biyıklıoğlu Z., Barut B., Yalçın C. Ö., Özel A.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.156, 2023 (SCI-Expanded)
11. **Synthesis and biological evaluation of novel zinc (II) and nickel (II) phthalocyanines as cholinesterase inhibitors**
AKKAYA D., BARUT B., SARI S., REIS R., Fazlı H., BIYIKLIOĞLU Z., ÖZEL A.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.995, 2023 (SCI-Expanded)
12. **Evaluation of photodynamic therapy effects of novel zinc (II) phthalocyanine through a possible interaction with toll-like receptor signaling pathway**
Barut B., Yalçın C. Ö., Altun Y., Akkaya D., Barut E. N., Baş H., Biyıklıoğlu Z.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.37, no.4, 2023 (SCI-Expanded)
13. **Enhancing the photocatalytic performance of Co(II) and Cu(II) phthalocyanine by containing 1,3,4 thiadiazole groups in 4-nitrophenol oxidation reaction**
SAKA E. T., Tekintas K., BEKİRCAN O., BIYIKLIOĞLU Z.
Inorganica Chimica Acta, vol.547, 2023 (SCI-Expanded)
14. **Synthesis of water soluble copper(II), manganese(III) phthalocyanines and their photocatalytic performances in benzyl alcohol photooxidation**
Fazlı H., Akkol Ç., OSMANOĞULLARI S. C., BIYIKLIOĞLU Z., SAKA E. T., BEKİRCAN O.
Journal of Organometallic Chemistry, vol.983, 2023 (SCI-Expanded)
15. **DNA interaction, cytotoxic and phototoxic properties of new water-soluble zinc (II) phthalocyanines**
BIYIKLIOĞLU Z., Bas H., ALTUN ALI Y., YALÇIN C. Ö., BARUT B.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.36, no.12, 2022 (SCI-Expanded)
16. **Synthesis and acetylcholinesterase enzyme inhibition properties of axially disubstituted silicon phthalocyanines and their quaternized derivatives**
BIYIKLIOĞLU Z., KELEŞ T., Sahin H.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.977, 2022 (SCI-Expanded)
17. **Synthesis, characterization, and alpha-glucosidase, cholinesterases, and tyrosinase inhibitory effects of axial substituted silicon and peripheral tetra-substituted copper (II), manganese (III) phthalocyanines**
Ozturmen B. A., BARUT B., BIYIKLIOĞLU Z.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.36, no.8, 2022 (SCI-Expanded)
18. **Non-aggregated and water soluble axially disubstituted silicon phthalocyanines: Synthesis and inhibitory effect on acetylcholinesterase enzyme**
BIYIKLIOĞLU Z., BaS H., Sahin H.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.36, no.6, 2022 (SCI-Expanded)
19. **Synthesis and biological evaluation of peripherally tetra-({6-[3-(dimethylamino)phenoxy]hexyl}oxy) substituted water-soluble phthalocyanines as cholinesterases inhibitors**
BIYIKLIOĞLU Z., Bas H., AKKAYA D., BARUT B.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.36, no.4, 2022 (SCI-Expanded)
20. **Synthesis and in vitro α -glucosidase and cholinesterases inhibitory actions of water-soluble metallophthalocyanines bearing ({{6-[3-(diethylamino)phenoxy]hexyl}oxy) groups**
KELEŞ T., BIYIKLIOĞLU Z., AKKAYA D., ÖZEL A., BARUT B.
Turkish Journal of Chemistry, vol.46, no.3, pp.786-795, 2022 (SCI-Expanded)
21. **Synthesis and in vitro alpha-glucosidase and cholinesterases inhibitory actions of water-soluble metallophthalocyanines bearing ({{6[3-(diethylamino)phenoxy]hexyl}oxy) groups**
KELEŞ T., BIYIKLIOĞLU Z., AKKAYA D., ÖZEL A., BARUT B.
TURKISH JOURNAL OF CHEMISTRY, 2022 (SCI-Expanded)
22. **Nonlinear Optical Properties of Novel Metallophthalocyanines**
Alawainati F. A., Manaa H., Henari F. Z., BIYIKLIOĞLU Z., Arslan T., Jaafar A.

JOURNAL OF APPLIED SPECTROSCOPY, vol.88, pp.951-957, 2021 (SCI-Expanded)

23. **Synthesis of water-soluble BODIPY dyes and investigation of their DNA interaction properties and cytotoxicity/phototoxicity**
KELEŞ T., BARUT B., YILDIRIM S., YALÇIN C. Ö., BIYIKLIOĞLU Z.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.35, no.11, 2021 (SCI-Expanded)
24. **Photocatalytic Efficiency of Metallo Phthalocyanine Sensitized TiO₂ (MPc/TiO₂) Nanocomposites for Cr(VI) and Antibiotic Amoxicillin**
Kesir M. K., Sokmen M., BIYIKLIOĞLU Z.
WATER, vol.13, no.16, 2021 (SCI-Expanded)
25. **Dye-sensitized solar cells using silicon phthalocyanine photosensitizers with pyridine anchor: Preparation, evaluation of photophysical, electrochemical, and photovoltaic properties**
Güzel E., Baş H., BIYIKLIOĞLU Z., Şişman İ.
Applied Organometallic Chemistry, vol.35, 2021 (SCI-Expanded)
26. **Carbonic Anhydrase Inhibition Potential and Some Bioactivities of the Peripherally Tetrasubstituted Cobalt(II), Titanium(IV), Manganese(III) Phthalocyanines**
Karacelik A. A., KÜÇÜK M., Efe D., Cakir V., BIYIKLIOĞLU Z.
LETTERS IN DRUG DESIGN & DISCOVERY, vol.18, no.4, pp.365-371, 2021 (SCI-Expanded)
27. **Synthesis and photodynamic activities of novel silicon(IV) phthalocyanines axially substituted with water soluble groups against HeLa cancer cell line**
Goksel M., Durmus M., BIYIKLIOĞLU Z.
DALTON TRANSACTIONS, vol.50, no.7, pp.2570-2584, 2021 (SCI-Expanded)
28. **Design, synthesis and biological evaluation of water soluble and non-aggregated silicon phthalocyanines, naphthalocyanines against A549, SNU-398, SK-MEL128, DU-145, BT-20 and HFC cell lines as potential anticancer agents**
KELEŞ T., Barut B., ÖZEL A., BIYIKLIOĞLU Z.
BIOORGANIC CHEMISTRY, vol.107, 2021 (SCI-Expanded)
29. **Dye-sensitized solar cells based on zinc(II) phthalocyanines bearing 3-pyridin-3-ylpropoxy anchoring groups**
KELEŞ T., BIYIKLIOĞLU Z., Guzel E., Nebioglu M., Sisman I.
Applied Organometallic Chemistry, vol.35, no.1, 2021 (SCI-Expanded)
30. **Synthesis of axially disubstituted silicon phthalocyanines and investigation of their in vitro cytotoxic/phototoxic anticancer activities**
Yurt F., SAKA E. T., BIYIKLIOĞLU Z., Tuncel A., Ozel D., Ocakoglu K.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.25, no.1, pp.10-18, 2021 (SCI-Expanded)
31. **Peripheral or nonperipheral tetra-[4-(9H-carbazol-9-yl)phenoxy] substituted cobalt(II), manganese(III) phthalocyanines: Synthesis, acetylcholinesterase, butyrylcholinesterase, and α -glucosidase inhibitory effects and anticancer activities**
Barut B., Keles T., BIYIKLIOĞLU Z., YALÇIN C. Ö.
Applied Organometallic Chemistry, vol.35, no.1, 2021 (SCI-Expanded)
32. **Pyridine substituted BODIPYs: synthesis, characterization and cholinesterase, alpha-glucosidase inhibitory, DNA hydrolytic cleavage effects**
BARUT B., Bas H., BIYIKLIOĞLU Z.
TURKISH JOURNAL OF CHEMISTRY, vol.45, no.5, pp.1567-1580, 2021 (SCI-Expanded)
33. **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)
34. **Synthesis, Characterization, and Photocatalytic Evaluation of Manganese (III) Phthalocyanine Sensitized ZnWO₄ (ZnWO₄MnPc) for Bisphenol A Degradation under UV Irradiation**
Anucha C. B., Altın İ., Biyiklioğlu Z., Bacaksız E., Polat İ., Stathopoulos V. N.
NANOMATERIALS, vol.10, no.11, 2020 (SCI-Expanded)

35. **Development and in vitro evaluation of BSA-coated liposomes containing Zn (II) phthalocyanine-containing ferrocene groups for photodynamic therapy of lung cancer**
 ÇOBAN Ö., Barut B., YALÇIN C. Ö., ÖZEL A., BIYIKLIOĞLU Z.
 Journal of Organometallic Chemistry, vol.925, 2020 (SCI-Expanded)
36. **SYNTHESIS, CHARACTERIZATION, AGGREGATION AND ELECTROCHEMICAL PROPERTIES OF PERIPHERAL OCTA-2-[[4-(2-BENZYLPHENOXY)BENZYL]THIO] ETHOXY GROUP SUBSTITUTED COBALT(II) PHTHALOCYANINE**
 SAĞLAM M. B., BIYIKLIOĞLU Z.
 REVUE ROUMAINE DE CHIMIE, vol.65, no.9, pp.807-814, 2020 (SCI-Expanded)
37. **Synthesis of water soluble tetra-substituted phthalocyanines: Investigation of DNA cleavage, cytotoxic effects and metabolic enzymes inhibition**
 Günsel A., Bilgiçli A. T., Barut B., Taslimi P., Özel A., Gülçin İ., Biyiklioğlu Z., Yarasir M. N.
 Journal of Molecular Structure, vol.1214, 2020 (SCI-Expanded)
38. **Peripherally and non-peripherally electropolymerizable (2-{2-[4-(1H-pyrrol-1-yl)phenoxy]ethoxy}ethoxy) group substituted cobalt(II), manganese(III) phthalocyanines: Synthesis and electrochemistry**
 BIYIKLIOĞLU Z., Sofuoğlu A.
 Journal of Molecular Structure, vol.1212, 2020 (SCI-Expanded)
39. **Antifungal photodynamic activities of phthalocyanine derivatives on Candida albicans**
 Ozturk I., Tunçel A., Yurt F., BIYIKLIOĞLU Z., Ince M., Ocakoglu K.
 Photodiagnosis and Photodynamic Therapy, vol.30, 2020 (SCI-Expanded)
40. **Synthesis of axially disubstituted quaternized silicon phthalocyanines as a promising photosensitizer for the photodynamic treatment of HCT-116, A549 and SH-SY5Y cancer cell lines**
 YALÇIN C. Ö., Bas H., Barut B., ÖZEL A., BIYIKLIOĞLU Z.
 DALTON TRANSACTIONS, vol.49, no.15, pp.4927-4934, 2020 (SCI-Expanded)
41. **Nuclear imaging potential and in vitro photodynamic activity of Boron subphthalocyanine on colon carcinoma cells**
 Yurt F., Arslan T., BIYIKLIOĞLU Z., Tuncel A., Ozel D., Ocakoglu K.
 Journal of Drug Delivery Science and Technology, vol.56, 2020 (SCI-Expanded)
42. **Synthesis, DNA interaction, in vitro/in silico topoisomerase II inhibition and photodynamic therapy activities of two cationic BODIPY derivatives**
 Barut B., COBAN O., YALÇIN C. Ö., Bas H., SARI S., Biyiklioglu Z., Demirbas Ü., ÖZEL A.
 DYES AND PIGMENTS, vol.174, 2020 (SCI-Expanded)
43. **Design, synthesis, characterization of peripherally tetra-pyridine-triazole-substituted phthalocyanines and their inhibitory effects on cholinesterases (AChE/BChE) and carbonic anhydrases (hCA I, II and IX)**
 Arslan T., CEYLAN M. B., Baş H., BIYIKLIOĞLU Z., Senturk M.
 DALTON TRANSACTIONS, vol.49, no.1, pp.203-209, 2020 (SCI-Expanded)
44. **Synthesis, aggregation, photocatalytical and electrochemical properties of axially 1-benzylpiperidin-4-oxy units substituted silicon phthalocyanine**
 SAKA E. T., YALAZAN H., BIYIKHOGLU Z., KANTEKİN H., TEKİNTAŞ K.
 Journal of Molecular Structure, vol.1199, 2020 (SCI-Expanded)
45. **Synthesis and effect of substituent position, metal type on the electrochemical properties of (3-morpholin-4-ylpropoxy) groups substituted cobalt, manganese phthalocyanines**
 BIYIKLIOĞLU Z., Bas H.
 TURKISH JOURNAL OF CHEMISTRY, vol.44, no.3, pp.687-694, 2020 (SCI-Expanded)
46. **Synthesis and electrochemical properties of copper(II), manganese(III) phthalocyanines bearing chalcone groups at peripheral or nonperipheral positions**
 Bas H., KAHRİMAN N., BIYIKLIOĞLU Z.
 TURKISH JOURNAL OF CHEMISTRY, vol.44, no.6, pp.1549-1557, 2020 (SCI-Expanded)
47. **Non-aggregated axially disubstituted silicon phthalocyanines: Synthesis, DNA cleavage and in vitro**

cytotoxic/phototoxic anticancer activities against SH-SY5Y cell line

Barut B., Biyikhoglu Z., YALÇIN C. Ö., Abudayyak M.

DYES AND PIGMENTS, vol.172, 2020 (SCI-Expanded)

48. **Novel water soluble BODIPY compounds: Synthesis, photochemical, DNA interaction, topoisomerases inhibition and photodynamic activity properties**
Barut B., YALÇIN C. Ö., SARI S., ÇOBAN Ö., Keles T., BIYIKLIOĞLU Z., Abudayyak M., DEMİRBAŞ Ü., ÖZEL A.
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.183, 2019 (SCI-Expanded)
49. **Synthesis, characterization and electrochemical studies of metal-free and metallophthalocyanines containing two different chalcone units substituted on peripherally positions**
SARKI G., KANTEKİN H., YALAZAN H., KAHRİMAN N., BIYIKLIOĞLU Z., SERDAROĞLU V.
JOURNAL OF MOLECULAR STRUCTURE, vol.1196, pp.592-603, 2019 (SCI-Expanded)
50. **Triazole substituted metal-free, metallo-phthalocyanines and their water soluble derivatives as potential cholinesterases inhibitors: Design, synthesis and in vitro inhibition study**
Arslan T., Cakir N., KELES T., Yiklioglu Z., Senturk M.
BIOORGANIC CHEMISTRY, vol.90, 2019 (SCI-Expanded)
51. **Synthesis and antimicrobial photodynamic activities of axially {4-[(1E)-3-oxo-3-(2-thienyl)prop-1-en-1-yl]phenoxy} groups substituted silicon phthalocyanine, subphthalocyanine on Gram-positive and Gram-negative bacteria**
BIYIKLIOĞLU Z., Ozturk I., Arslan T., Tuncel A., Ocakoglu K., Hosgor-Limoncu M., Yurt F.
DYES AND PIGMENTS, vol.166, pp.149-158, 2019 (SCI-Expanded)
52. **Synthesis of water soluble silicon phthalocyanine, naphthalocyanine bearing pyridine groups and investigation of their DNA interaction, topoisomerase inhibition, cytotoxic effects and cell cycle arrest properties**
KELES T., Barut B., ÖZEL A., BIYIKLIOĞLU Z.
DYES AND PIGMENTS, vol.164, pp.372-383, 2019 (SCI-Expanded)
53. **Synthesis and electrochemical properties of peripheral, non-peripheral tetra [2-(3,5-diphenyl-1H-1,2,4-triazol-1-yl)ethoxy] substituted cobalt(II), manganese(III) phthalocyanines**
KELES T., BIYIKLIOĞLU Z., GULTEKİN E., BEKİRCAN O.
INORGANICA CHIMICA ACTA, vol.487, pp.201-207, 2019 (SCI-Expanded)
54. **Comparative nonlinear optics and optical limiting properties of metallophthalocyanines**
BIYIKLIOĞLU Z., Arslan T., ALAWAINATI F. A., MANAA H., JAFFAR A., HENARI F. Z.
INORGANICA CHIMICA ACTA, vol.486, pp.345-351, 2019 (SCI-Expanded)
55. **Non-peripherally 4-[(1E)-1-benzothien-2-ylmethylene]amino}phenol substituted zinc(II), manganese(III), cobalt(II) phthalocyanines: Synthesis and electrochemistry**
ÜNVER Y., BAS H., BIYIKLIOĞLU Z.
JOURNAL OF MOLECULAR STRUCTURE, vol.1178, pp.508-513, 2019 (SCI-Expanded)
56. **Synthesis, DNA interaction, topoisomerase I, II inhibitory and cytotoxic effects of water soluble silicon (IV) phthalocyanine and naphthalocyanines bearing 1-acetylpiperazine units**
BAS H., Barut B., BIYIKLIOĞLU Z., ÖZEL A.
DYES AND PIGMENTS, vol.160, pp.136-144, 2019 (SCI-Expanded)
57. **Synthesis and electropolymerization properties of axially disubstituted silicon phthalocyanines bearing carbazole units**
Baş H., BIYIKLIOĞLU Z.
Inorganica Chimica Acta, vol.483, pp.79-86, 2018 (SCI-Expanded)
58. **SYNTHESIS, CHARACTERIZATION, ELECTROCHEMICAL PROPERTIES OF METAL-FREE AND METALLOPHTHALOCYANINES BEARING 2-BENZYLPHENOXY SUBSTITUENTS AND INVESTIGATION OF THEIR BIOLOGICAL ACTIVITIES**
SAĞLAM M. B., İNAN BEKTAŞ K., Uysal A., GÜLER H. İ., SAĞLAM A., BIYIKLIOĞLU Z.
REVUE ROUMAINE DE CHIMIE, vol.63, no.10, pp.881-895, 2018 (SCI-Expanded)
59. **Anthracene Substituted Co (II) and Cu (II) phthalocyanines; Preparations, Investigation of Catalytical and Electrochemical Behaviors**

- SAKA E. T., BIYIKLIOĞLU Z., Caglar Y.
 APPLIED ORGANOMETALLIC CHEMISTRY, vol.32, no.9, 2018 (SCI-Expanded)
60. **Spectrophotometric determination of Hg(II) in water samples by dispersive liquid liquid microextraction with use ionic liquid after derivatization with a water soluble Fe(II) phthalocyanine**
 Caglar Y., BIYIKLIOĞLU Z.
 JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.90, pp.331-339, 2018 (SCI-Expanded)
61. **Synthesis of novel monostyryl and distyryl boron dipyrromethenes bearing 4-((2-hydroxyethyl) (methyl)amino group as cholinesterase and tyrosinase inhibitors**
 Arslan T., KELES T., Barut B., ÖZEL A., BIYIKLIOĞLU Z.
 INORGANICA CHIMICA ACTA, vol.471, pp.121-125, 2018 (SCI-Expanded)
62. **Synthesis, DNA/BSA binding and DNA photocleavage properties of water soluble BODIPY dyes**
 BIYIKLIOĞLU Z., Barut B., ÖZEL A.
 DYES AND PIGMENTS, vol.148, pp.417-428, 2018 (SCI-Expanded)
63. **The synthesis of axially disubstituted silicon phthalocyanines, their quaternized derivatives and first inhibitory effect on human cytosolic carbonic anhydrase isozymes hCA I and II**
 Arslan T., BIYIKLIOĞLU Z., Senturk M.
 RSC ADVANCES, vol.8, no.19, pp.10172-10178, 2018 (SCI-Expanded)
64. **Metallophthalocyanines Bearing Polymerizable {[5-((1E)-[4-(Diethylamino)phenyl]methylene)amino]-1-naphthyl]oxy} Groups as Electrochemical Pesticide Sensor**
 Akyuz D., Keles T., BIYIKLIOĞLU Z., KOCA A.
 ELECTROANALYSIS, vol.29, no.12, pp.2913-2924, 2017 (SCI-Expanded)
65. **Synthesis and electrochemical properties of new metal-free and metallophthalocyanines bearing 2,6-dimethylquinoline-4-yl derivatives**
 KAMILOGLU A. A., ACAR İ., BIYIKLIOĞLU Z.
 POLYHEDRON, vol.137, pp.10-16, 2017 (SCI-Expanded)
66. **Synthesis and electropolymerization properties of [(4-{3-[3-(dimethylamino)phenoxy]propoxy}phenyl)methoxy] and [(4-{3-[3-(diethylamino)phenoxy]propoxy}phenyl)methoxy] substituted silicon naphthalocyanines**
 BIYIKLIOĞLU Z., SOFUOĞLU A.
 JOURNAL OF MOLECULAR STRUCTURE, vol.1148, pp.15-21, 2017 (SCI-Expanded)
67. **Electrochemical pesticide sensors based on electropolymerized metallophthalocyanines**
 Akyuz D., KELES T., BIYIKLIOĞLU Z., KOCA A.
 JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.804, pp.53-63, 2017 (SCI-Expanded)
68. **Synthesis and electropolymerization properties of new axially substituted subphthalocyanines bearing polymerizable 2-[4-((1E)-[4-(dimethylamino,diethylamino)phenyl]methylene)amino]phenyl]ethoxy groups**
 Baş H., BIYIKLIOĞLU Z.
 INORGANICA CHIMICA ACTA, vol.467, pp.56-61, 2017 (SCI-Expanded)
69. **Electropolymerization of Metallophthalocyanines Carrying Redox Active Metal Centers and their Electrochemical Pesticide Sensing Application**
 KELES T., Akyuz D., BIYIKLIOĞLU Z., KOCA A.
 ELECTROANALYSIS, vol.29, no.9, pp.2125-2137, 2017 (SCI-Expanded)
70. **Synthesis and electrochemical characterization of BODIPY dyes bearing polymerizable substituents**
 BIYIKLIOĞLU Z., KELES T.
 INORGANICA CHIMICA ACTA, vol.466, pp.130-138, 2017 (SCI-Expanded)
71. **Tetra(3-(1,5-diphenyl-4,5-dihydro-1H-pyrazol-3-yl) phenoxy) substituted cobalt, iron and manganese phthalocyanines: Synthesis and electrochemical analysis**
 Nas A., Biyiklioğlu Z., Fandaklı S., Sarkı G., Yalazan H., Kantekin H.
 INORGANICA CHIMICA ACTA, vol.466, pp.86-92, 2017 (SCI-Expanded)
72. **The water soluble axially disubstituted silicon phthalocyanines: photophysicochemical properties**

and in vitro studies

Goksel M., BIYIKLIOĞLU Z., Durmus M.

JOURNAL OF BIOLOGICAL INORGANIC CHEMISTRY, vol.22, no.6, pp.953-967, 2017 (SCI-Expanded)

73. **Novel peripherally tetra substituted metal-free, cobalt(II), copper(II) and manganese(III) phthalocyanines bearing polyethoxy chain attached by 2,6-diphenylphenol groups: synthesis, characterization and their electrochemical studies**
KAMILOGLU A. A., ACAR İ., BIYIKLIOĞLU Z.
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.88, pp.219-228, 2017 (SCI-Expanded)
74. **The synthesis and electrochemical characterization of new metallophthalocyanines containing 4-aminoantipyrine moieties on peripherally positions**
ERTEM B., Sarkı G., YALAZAN H., BIYIKLIOĞLU Z., KANTEKİN H.
INORGANICA CHIMICA ACTA, vol.462, pp.123-129, 2017 (SCI-Expanded)
75. **A comparative study on DNA/BSA binding, DNA photocleavage and antioxidant activities of water soluble peripherally and non-peripherally tetra-3-pyridin-3-ylpropoxy-substituted Mn(III), Cu(II) phthalocyanines**
KELES T., Barut B., BIYIKLIOĞLU Z., ÖZEL A.
DYES AND PIGMENTS, vol.139, pp.575-586, 2017 (SCI-Expanded)
76. **K X-ray fluorescence parameters of peripherally and non-peripherally tetra-substituted zinc (II) phthalocyanines**
Cengiz E., DOĞAN M., BIYIKLIOĞLU Z., ÇAKIR D., TIRAŞOĞLU E., APAYDIN G.
CANADIAN JOURNAL OF PHYSICS, vol.95, no.2, pp.125-129, 2017 (SCI-Expanded)
77. **Synthesis and electropolymerization studies of non-aggregated (4-{3-[3-(dimethylamino,diethylamino)phenoxy]propoxy}phenyl)propanoxy substituted silicon naphthalocyanines**
BIYIKLIOĞLU Z., ALP H.
JOURNAL OF COORDINATION CHEMISTRY, vol.70, no.14, pp.2359-2370, 2017 (SCI-Expanded)
78. **Peripherally tetra-{2-(2,3,5,6-tetrafluorophenoxy)ethoxy} substituted cobalt(II), iron(II) metallophthalocyanines: Synthesis and their electrochemical, catalytic activity studies**
KAMILOGLU A. A., ACAR İ., BIYIKLIOĞLU Z., SAKA E. T.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.828, pp.59-67, 2017 (SCI-Expanded)
79. **Fluoro functional groups substituted cobalt(II), iron(II) phthalocyanines and their catalytic properties on benzyl alcohol oxidation**
AKTAS A., ACAR İ., SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.86, pp.183-190, 2016 (SCI-Expanded)
80. **Peripherally tetra-{2-(2,3,5,6-tetrafluorophenoxy)ethoxy} substituted cobalt(II), iron(II) metallophthalocyanines: Synthesis and their electrochemical, catalytic activity studies**
Aktas A., ACAR İ., BIYIKLIOĞLU Z., SAKA E. T.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.828, pp.59-67, 2016 (SCI-Expanded)
81. **Design, Synthesis, Characterization and Electrochemical Properties of BODIPY Dyes Containing Mono, Bis-2-Naphthyloxyhexyloxy and 4-(Benzyloxy)Phenoxyhexyloxy Groups**
BIYIKLIOĞLU Z., KELES T.
JOURNAL OF FLUORESCENCE, vol.26, no.6, pp.2257-2266, 2016 (SCI-Expanded)
82. **Substituted phthalocyanines and their electropolymerization properties**
Bayrak R., AKÇAY H. T., BIYIKLIOĞLU Z., DEĞİRMENCİOĞLU İ.
SYNTHETIC METALS, vol.220, pp.643-652, 2016 (SCI-Expanded)
83. **Synthesis, characterization, electropolymerization and aggregation properties of axially diethyl-dimethylaminophenoxypropanoxy substituted silicon phthalocyanines and their water soluble derivatives**
BIYIKLIOĞLU Z., ALP H.
DYES AND PIGMENTS, vol.132, pp.213-222, 2016 (SCI-Expanded)
84. **DNA binding, photocleavage and topoisomerase I inhibition of novel water soluble phthalocyanine**

compounds

BARUT B., ÖZEL A., SOFUOĞLU A., BIYIKLIOĞLU Z.

FEBS JOURNAL, no.283, pp.156, 2016 (SCI-Expanded)

85. **Synthesis of polyfluoro substituted Co(II), Fe(II) phthalocyanines and their usage as catalysts for aerobic oxidation of benzyl alcohol**
Aktas A., ACAR İ., SAKA E. T., BIYIKLIOĞLU Z.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, pp.1-7, 2016 (SCI-Expanded)
86. **Quaternized zinc(II) phthalocyanine-sensitized TiO₂: surfactant-modified sol-gel synthesis, characterization and photocatalytic applications**
ALTIN İ., Sokmen M., BIYIKLIOĞLU Z.
DESALINATION AND WATER TREATMENT, vol.57, no.34, pp.16196-16207, 2016 (SCI-Expanded)
87. **Investigation of DNA binding, DNA photocleavage, topoisomerase I inhibition and antioxidant activities of water soluble titanium(IV) phthalocyanine compounds**
ÖZEL A., Barut B., DEMİRBAŞ Ü., BIYIKLIOĞLU Z.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, vol.157, pp.32-38, 2016 (SCI-Expanded)
88. **Sol gel synthesis of cobalt doped TiO₂ and its dye sensitization for efficient pollutant removal**
ALTIN İ., Sokmen M., BIYIKLIOĞLU Z.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.45, pp.36-44, 2016 (SCI-Expanded)
89. **Synthesis and photophysical properties of novel water soluble phthalocyanines**
Cakir V., Goksel M., Durmus M., BIYIKLIOĞLU Z.
DYES AND PIGMENTS, vol.125, pp.414-425, 2016 (SCI-Expanded)
90. **Co-TiO₂ modified with peripherally crown-ether substituted metal-free phthalocyanine nanostructures: Preparation and photocatalytic properties**
ALTIN İ., SÖKMEN M., BIYIKLIOĞLU Z.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.45, pp.36-44, 2016 (SCI-Expanded)
91. **Synthesis, characterization and electrochemical properties of amphiphilic axially-disubstituted silicon(IV) phthalocyanines**
BIYIKLIOĞLU Z., Omeroglu I., ALP H.
JOURNAL OF COORDINATION CHEMISTRY, vol.69, no.2, pp.354-362, 2016 (SCI-Expanded)
92. **Axially diethylaminophenoxypropanoxy substituted new subphthalocyanines: synthesis and electropolymerization properties**
BIYIKLIOĞLU Z., ALP H.
DALTON TRANSACTIONS, vol.45, no.9, pp.3838-3843, 2016 (SCI-Expanded)
93. **The water soluble peripherally tetra-substituted zinc(II), manganese(III) and copper(II) phthalocyanines as new potential anticancer agents**
Barut B., SOFUOĞLU A., BIYIKLIOĞLU Z., ÖZEL A.
DALTON TRANSACTIONS, vol.45, no.36, pp.14301-14310, 2016 (SCI-Expanded)
94. **Electropolymerization and Electrochemical Pesticide Sensor Application of Metallophthalocyanines Bearing Polymerizable Morpholin Groups**
Ozen U. E., Keles T., BIYIKLIOĞLU Z., KOCA A., ÖZKAYA A. R.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.163, no.14, 2016 (SCI-Expanded)
95. **Non-aggregated axially naphthoxazin group substituted silicon phthalocyanines: Synthesis and electrochemistry**
Baş H., BIYIKLIOĞLU Z.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.791, pp.238-243, 2015 (SCI-Expanded)
96. **Co(II) and Fe(II) phthalocyanines: synthesis, investigation of their catalytic activity towards phenolic compounds and electrochemical behaviour**
SAKA E. T., BIYIKLIOĞLU Z.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.29, no.6, pp.392-399, 2015 (SCI-Expanded)
97. **Synthesis and electrochemistry of new octa-substituted metal-free and metallophthalocyanines**
SAKA E. T., BIYIKLIOĞLU Z.

APPLIED ORGANOMETALLIC CHEMISTRY, vol.29, pp.392-399, 2015 (SCI-Expanded)

98. **New peripherally and non-peripherally tetra-substituted water soluble zinc phthalocyanines: Synthesis, photophysics and photochemistry**
Cakir V., Cakir D., PİŞKİN M., DURMUŞ M., BIYIKLIOĞLU Z.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.783, pp.120-129, 2015 (SCI-Expanded)
99. **Electrochemical and aggregation properties of newly synthesized dendritic axially morpholine-disubstituted silicon phthalocyanine, mono-substituted subphthalocyanine and their quaternized derivatives**
Biyiklioglu Z.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.55, pp.60-64, 2015 (SCI-Expanded)
100. **Water soluble {2-[3-(diethylamino)phenoxy]ethoxy} substituted zinc(II) phthalocyanine photosensitizers**
CAKIR D., Gol C., CAKIR V., Durmus M., BIYIKHOGLU Z., KANTEKİN H.
JOURNAL OF LUMINESCENCE, vol.159, pp.79-87, 2015 (SCI-Expanded)
101. **1,2,4-Triazole-substituted metallophthalocyanines carrying redox active cobalt(II), manganese(III), titanium(IV) center and their electrochemical studies**
Cakir D., BEKİRCAN O., BIYIKLIOĞLU Z.
SYNTHETIC METALS, vol.201, pp.18-24, 2015 (SCI-Expanded)
102. **Synthesis and electrochemistry of new octa-substituted metal-free and metallophthalocyanines**
ACAR İ., SAKA E. T., Topçu S., BIYIKLIOĞLU Z., KANTEKİN H.
JOURNAL OF COORDINATION CHEMISTRY, vol.68, pp.1847-1858, 2015 (SCI-Expanded)
103. **Synthesis and electrochemistry of non-aggregated axially disubstituted silicon phthalocyanines bearing benzoxazin substituents**
BIYIKLIOĞLU Z., Baş H.
INORGANICA CHIMICA ACTA, vol.427, pp.293-298, 2015 (SCI-Expanded)
104. **Synthesis, photochemical, bovine serum albumin and DNA binding properties of tetrasubstituted zinc phthalocyanines and their water soluble derivatives**
CAKIR V., CAKIR D., Goksel M., Durmus M., BIYIKLIOĞLU Z., KANTEKİN H.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.299, pp.138-151, 2015 (SCI-Expanded)
105. **Synthesis and electrochemical properties of axially disubstituted silicon phthalocyanine and peripherally tetra substituted manganese (III) phthalocyanine bearing 1,2,4-triazole substituents**
BIYIKLIOĞLU Z., BEKİRCAN O.
SYNTHETIC METALS, vol.200, pp.148-155, 2015 (SCI-Expanded)
106. **An effect of the substituent position and metal type on the electropolymerization properties of chalcone substituted metallophthalocyanines**
Cakir D., Arslan T., BIYIKLIOĞLU Z.
DALTON TRANSACTIONS, vol.44, no.48, pp.20859-20866, 2015 (SCI-Expanded)
107. **Amphiphilic zinc phthalocyanine photosensitizers: synthesis, photophysicochemical properties and in vitro studies for photodynamic therapy**
CAKIR D., Goksel M., CAKIR V., Durmus M., BIYIKLIOĞLU Z., KANTEKİN H.
DALTON TRANSACTIONS, vol.44, no.20, pp.9646-9658, 2015 (SCI-Expanded)
108. **Non-aggregated axially disubstituted silicon phthalocyanines bearing electropolymerizable ligands and their aggregation, electropolymerization and thermal properties**
BIYIKLIOĞLU Z., BAS H., ALP H.
DALTON TRANSACTIONS, vol.44, no.31, pp.14054-14062, 2015 (SCI-Expanded)
109. **Synthesis and electrochemistry of new octa-substituted metal-free and metallophthalocyanines**
ACAR İ., SAKA E. T., Topcu S., BIYIKLIOĞLU Z., KANTEKİN H., AKTAS A.
JOURNAL OF COORDINATION CHEMISTRY, vol.68, no.10, pp.1847-1858, 2015 (SCI-Expanded)
110. **Electropolymerizable peripherally tetra-{2-[3-(diethylamino) phenoxy]ethoxy} substituted as well as axially (4-phenylpiperazin-1-yl)-propanoxy-disubstituted silicon phthalocyanines and their electrochemistry**

- BIYIKLIOĞLU Z., ALP H.
DALTON TRANSACTIONS, vol.44, no.43, pp.18993-18999, 2015 (SCI-Expanded)
111. **Synthesis and electrochemistry of phthalocyanines bearing [(3,4-dimethoxybenzyl) oxy] groups**
Omeroglu I., BIYIKLIOĞLU Z.
TURKISH JOURNAL OF CHEMISTRY, vol.39, no.2, pp.347-358, 2015 (SCI-Expanded)
112. **Synthesis, electrochemistry of metal-free, copper, titanium phthalocyanines and investigation of catalytic activity of cobalt, iron phthalocyanines on benzyl alcohol oxidation bearing 4-{2-[3-trifluoromethyl)phenoxy]ethoxy} groups**
AKTAS A., ACAR İ., BIYIKHOGLU Z., SAKA E. T., KANTEKİN H.
SYNTHETIC METALS, vol.198, pp.212-220, 2014 (SCI-Expanded)
113. **Highly selective oxidation of benzyl alcohol catalyzed by new peripherally tetra-substituted Fe(II) and Co(II) phthalocyanines**
CAKIR V., SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.
SYNTHETIC METALS, vol.197, pp.233-239, 2014 (SCI-Expanded)
114. **Synthesis, electrochemistry, spectroelectrochemistry and electropolymerization of metal-free and metallophthalocyanines**
CAKIR V., KANTEKİN H., BIYIKLIOĞLU Z., KOCA A.
POLYHEDRON, vol.81, pp.525-533, 2014 (SCI-Expanded)
115. **New electropolymerizable metal-free, metallophthalocyanines and their electrochemical, spectroelectrochemical studies**
CAKIR V., KANTEKİN H., BIYIKLIOĞLU Z., KOCA A.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.768, pp.28-35, 2014 (SCI-Expanded)
116. **New electropolymerizable metal-free and metallophthalocyanines bearing {2-[3-(diethylamino)phenoxy]ethoxy} substituents**
BIYIKLIOĞLU Z., Çakır V., Demir F., KOCA A.
SYNTHETIC METALS, vol.196, pp.166-172, 2014 (SCI-Expanded)
117. **Water soluble peripheral and non-peripheral tetrasubstituted zinc phthalocyanines: Synthesis, photochemistry and bovine serum albumin binding behavior**
Çakır V., Çakır D., PİŞKİN M., Durmus M., BIYIKLIOĞLU Z.
JOURNAL OF LUMINESCENCE, vol.154, pp.274-284, 2014 (SCI-Expanded)
118. **Novel water soluble and amphiphilic titanium(IV) phthalocyanines and their electrochemical studies**
Biyiklioglu Z.
SYNTHETIC METALS, vol.196, pp.48-55, 2014 (SCI-Expanded)
119. **Synthesis, characterization and aggregation behaviour of novel peripherally tetra-substituted octacationic water soluble metal-free and metallophthalocyanines**
CAKIR V., ÇAKIR D., BIYIKLIOĞLU Z., KANTEKİN H.
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.78, pp.61-70, 2014 (SCI-Expanded)
120. **New water soluble and amphiphilic titanium(IV) phthalocyanines and investigation of electropolymerization properties**
Biyiklioglu Z.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.752, pp.59-66, 2014 (SCI-Expanded)
121. **Novel pthalocyanines bearing 4-ferrocenylphenoxy substituents and their electrochemistry**
Omeroglu I., Arslan T., BIYIKLIOĞLU Z., Tosun G.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.749, pp.261-265, 2014 (SCI-Expanded)
122. **Electrochromism of Electropolymerized Metallophthalocyanines**
Demir F., BIYIKLIOĞLU Z., KOCA A.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.161, no.3, 2014 (SCI-Expanded)
123. **Synthesis and electrochemistry of non-aggregated silicon phthalocyanines bearing unsaturated functional groups**
Aktas A., BIYIKLIOĞLU Z.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.749, pp.364-369, 2014 (SCI-Expanded)

124. **New electropolymerizable metal-free and metallophthalocyanines bearing {2,3-bis[3-(diethylamino)phenoxy]propoxy} substituents**
BIYIKLIOĞLU Z., Cakir D.
DYES AND PIGMENTS, vol.100, pp.150-157, 2014 (SCI-Expanded)
125. **Microwave-assisted synthesis and characterization of Co(II) phthalocyanine and investigation of its catalytic activity on 4-nitrophenol oxidation**
SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.6, pp.1166-1173, 2014 (SCI-Expanded)
126. **Synthesis, photophysical and photochemical properties of zinc phthalocyanines bearing fluoro-functionalized substituents**
Aktas A., Piskin M., Durmus M., BIYIKLIOĞLU Z.
JOURNAL OF LUMINESCENCE, vol.145, pp.899-906, 2014 (SCI-Expanded)
127. **Crown ether-substituted water soluble phthalocyanines and their aggregation, electrochemical studies**
BIYIKLIOĞLU Z., ÇAKIR V., ÇAKIR D., KANTEKİN H.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.749, pp.18-25, 2014 (SCI-Expanded)
128. **Preparation of non-aggregating novel silicon phthalocyanines axially disubstituted with fluorinated functions**
BIYIKLIOĞLU Z., Aktas A.
COLORATION TECHNOLOGY, vol.129, no.6, pp.425-430, 2013 (SCI-Expanded)
129. **Electropolymerizable non-ionic and quaternized ionic titanium(IV) phthalocyanines and their electrochemistry**
Biyiklioglu Z.
DYES AND PIGMENTS, vol.99, no.3, pp.727-732, 2013 (SCI-Expanded)
130. **Synthesis, characterization, electrochemical and spectroelectrochemical properties of peripherally tetra-substituted metal-free and metallophthalocyanines**
AKTAS A., ACAR İ., KOCA A., BIYIKLIOĞLU Z., KANTEKİN H.
DYES AND PIGMENTS, vol.99, no.3, pp.613-619, 2013 (SCI-Expanded)
131. **New water soluble cationic zinc phthalocyanines as potential for photodynamic therapy of cancer**
ÇAKIR D., ÇAKIR V., BIYIKLIOĞLU Z., Durmus M., KANTEKİN H.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.745, pp.423-431, 2013 (SCI-Expanded)
132. **Investigation of catalytic activity of new Co(II) phthalocyanine complexes in cyclohexene oxidation using different type of oxidants**
AKTAS A., SAKA E. T., BIYIKLIOĞLU Z., ACAR İ., KANTEKİN H.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.745, pp.18-24, 2013 (SCI-Expanded)
133. **Co(II) and Fe(II) phthalocyanines: Synthesis, characterization and catalytic activity on cyclohexene oxidation with different oxygen source**
SAKA E. T., BIYIKLIOĞLU Z.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.745, pp.50-56, 2013 (SCI-Expanded)
134. **Synthesis, characterization and investigation of homogeneous oxidation activities of peripherally tetra-substituted Co(II) and Fe(II) phthalocyanines: Oxidation of cyclohexene**
BIYIKLIOĞLU Z., SAKA E. T., GOKCE S., KANTEKİN H.
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, vol.378, pp.156-163, 2013 (SCI-Expanded)
135. **Non-aggregated and water soluble amphiphilic silicon phthalocyanines with two axial substituents and their electrochemical properties**
Biyiklioglu Z.
POLYHEDRON, vol.63, pp.1-8, 2013 (SCI-Expanded)
136. **Water-soluble axially disubstituted non-aggregated silicon phthalocyanines and their electrochemical properties**
Biyiklioglu Z.
DYES AND PIGMENTS, vol.99, no.1, pp.59-66, 2013 (SCI-Expanded)

137. **Synthesis, characterization, electrochemical and spectroelectrochemical properties of metal-free and metallophthalocyanines bearing electropolymerizable dimethylamine groups**
CAKIR V., Demir F., BIYIKLIOĞLU Z., KOCA A., KANTEKİN H.
DYES AND PIGMENTS, vol.98, no.3, pp.414-421, 2013 (SCI-Expanded)
138. **New soluble peripherally tetra-substituted Co(II), Fe(II) phthalocyanines: Synthesis, spectroscopic characterization and their catalytic activity in cyclohexene oxidation**
SAKA E. T., CAKIR D., BIYIKLIOĞLU Z., KANTEKİN H.
DYES AND PIGMENTS, vol.98, no.2, pp.255-262, 2013 (SCI-Expanded)
139. **Synthesis, characterisation and electrochemical investigation of phthalocyanines with pendant 4-{2-[2-(4-tert-butylphenoxy)ethoxy]ethoxy} substituents**
ACAR İ., Topcu S., BIYIKLIOĞLU Z., KANTEKİN H.
COLORATION TECHNOLOGY, vol.129, no.4, pp.259-266, 2013 (SCI-Expanded)
140. **Synthesis, characterization of metal-free, metallophthalocyanines and catalytic activity of cobalt phthalocyanine in cyclohexene oxidation**
GOKCE S., SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.
SYNTHETIC METALS, vol.176, pp.108-115, 2013 (SCI-Expanded)
141. **Synthesis and characterization of peripheral and non-peripheral substituted Co(II) phthalocyanines and their catalytic activity in styrene oxidation**
SAKA E. T., ACAR İ., BIYIKLIOĞLU Z., KANTEKİN H., Kani I.
SYNTHETIC METALS, vol.169, pp.12-17, 2013 (SCI-Expanded)
142. **Novel metal-free, metallophthalocyanines and their quaternized derivatives: Synthesis, spectroscopic characterization and catalytic activity of cobalt phthalocyanine in 4-nitrophenol oxidation**
ACAR İ., BAYRAK R., SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.
POLYHEDRON, vol.50, no.1, pp.345-353, 2013 (SCI-Expanded)
143. **Synthesis, characterization and catalytic activity of peripherally tetra-substituted Co(II) phthalocyanines for cyclohexene oxidation**
SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H., Kani I.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.27, no.1, pp.59-67, 2013 (SCI-Expanded)
144. **Synthesis, characterization, photophysical and photochemical properties of tetra-2-[2-(benzothiazolythio)]ethoxy substituted phthalocyanine derivatives**
SAKA E. T., ERSOY N., Gol C., Durmus M., BIYIKLIOĞLU Z., KANTEKİN H.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.723, pp.1-9, 2013 (SCI-Expanded)
145. **Novel axially disubstituted non-aggregated silicon phthalocyanines**
BIYIKLIOĞLU Z., Cakir D.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.98, pp.178-182, 2012 (SCI-Expanded)
146. **Synthesis and spectroscopic characterisation of non-aggregated novel axially 4-{2-[3-(diethylamino)phenoxy]ethoxy} and crown ether substituted silicon phthalocyanines**
Biyiklioglu Z.
COLORATION TECHNOLOGY, vol.128, no.6, pp.459-463, 2012 (SCI-Expanded)
147. **Novel peripherally tetra-substituted octacationic metal-free and metallophthalocyanines: Synthesis, spectroscopic characterization and aggregation behaviours**
ACAR İ., CAKIR V., BIYIKLIOĞLU Z., KANTEKİN H.
SYNTHETIC METALS, vol.162, pp.1546-1557, 2012 (SCI-Expanded)
148. **Photophysical, photochemical and aggregation behavior of novel peripherally tetra-substituted phthalocyanine derivatives**
SAKA E. T., Gol C., Durmus M., KANTEKİN H., BIYIKHOGLU Z.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.241, pp.67-78, 2012 (SCI-Expanded)
149. **Peripheral and non-peripheral long-chain tetrasubstituted phthalocyanines: Synthesis, spectroscopic characterization and aggregation properties**

- BIYIKLIOĞLU Z., ACAR İ.
SYNTHETIC METALS, vol.162, pp.1156-1163, 2012 (SCI-Expanded)
150. **Photophysical, photochemical and aggregation behavior of novel peripherally tetra-substituted phthalocyanine derivatives**
SAKA E. T., Göl C., Durmuş M., KANTEKİN H., BIYIKLIOĞLU Z.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.241, pp.67-78, 2012 (SCI-Expanded)
151. **Synthesis, characterization and comparative studies on the photophysical and photochemical properties of peripherally and non-peripherally tetra-substituted zinc(II) phthalocyanines**
ACAR İ., BIYIKLIOĞLU Z., Durmuş M., KANTEKİN H.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.708, pp.65-74, 2012 (SCI-Expanded)
152. **Synthesis, characterization and aggregation properties of water-soluble metal-free and metallophthalocyanines peripherally tetra-substituted with 2-[2-(dimethylamino)ethoxy]ethoxy moiety**
Biyiklioglu Z.
SYNTHETIC METALS, vol.162, pp.26-34, 2012 (SCI-Expanded)
153. **Photophysical, Photochemical and Aggregation Behavior of Novel Peripherally Tetra-substituted Phthalocyanine Derivatives**
SAKA E. T., Göl C., Durmuş M., KANTEKİN H., BIYIKLIOĞLU Z.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.241, pp.67-78, 2012 (SCI-Expanded)
154. **Tetrakis (2-[2-(2-naphthoxy)ethoxy]ethoxy) substituted metal-free and metallophthalocyanines and their aggregation behavior**
ACAR İ., BIYIKLIOĞLU Z., ÇAKIR D., KANTEKİN H.
JOURNAL OF COORDINATION CHEMISTRY, vol.65, no.23, pp.4077-4085, 2012 (SCI-Expanded)
155. **Spectrophotometric Determination of Gold (III) after Liquid-Liquid Extraction and Selective Pre-concentration with a Novel Dibenzo-18-Crown-6 Derivative**
BULUT V. N., DURAN C., BIYIKLIOĞLU Z., Tufekci M., SOYLAK M.
GEOSTANDARDS AND GEOANALYTICAL RESEARCH, vol.35, no.4, pp.471-483, 2011 (SCI-Expanded)
156. **Tetra-2-[2-(dimethylamino)ethoxy]ethoxy substituted zinc phthalocyanines and their quaternized analogues: Synthesis, characterization, photophysical and photochemical properties**
BIYIKLIOĞLU Z., Durmuş M., KANTEKİN H.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.222, no.1, pp.87-96, 2011 (SCI-Expanded)
157. **Synthesis and spectroscopic properties of a series of octacationic water-soluble phthalocyanines**
BIYIKLIOĞLU Z., KANTEKİN H.
SYNTHETIC METALS, vol.161, pp.943-948, 2011 (SCI-Expanded)
158. **Synthesis, electrochemical, in-situ spectroelectrochemical and in-situ electrocolorimetric characterization of non-peripheral tetrasubstituted metal-free and metallophthalocyanines**
BIYIKLIOĞLU Z., ÇAKIR V., KOCA A., KANTEKİN H.
DYES AND PIGMENTS, vol.89, no.1, pp.49-55, 2011 (SCI-Expanded)
159. **Novel water-soluble metal-free and metallophthalocyanines: Synthesis, spectroscopic characterization and aggregation properties**
Biyiklioglu Z.
SYNTHETIC METALS, vol.161, pp.508-515, 2011 (SCI-Expanded)
160. **Metal-free and metallophthalocyanines appending with eight 12-crown-4 ethers**
BIYIKLIOĞLU Z., Yildiz S. Z., KANTEKİN H.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.695, pp.1729-1733, 2010 (SCI-Expanded)
161. **Chemical Effect on K Shell X-ray Fluorescence Parameters and Radiative Auger Ratios of Co, Ni, Cu, and Zn Complexes**
Cengiz E., BIYIKLIOĞLU Z., AYLIKCI N. K., AYILKCI V., APAYDIN G., TIRAŞOĞLU E., KANTEKİN H.
CHINESE JOURNAL OF CHEMICAL PHYSICS, vol.23, no.2, pp.138-144, 2010 (SCI-Expanded)
162. **Synthesis, electrochemical, in situ spectroelectrochemical and in situ electrocolorimetric**

characterization of new metal-free and metallophthalocyanines substituted with 4-{2-[2-(1-naphthyloxy)ethoxy]ethoxy} groups

ACAR İ., BIYIKLIOĞLU Z., KOCA A., KANTEKİN H.

POLYHEDRON, vol.29, no.5, pp.1475-1484, 2010 (SCI-Expanded)

163. **Synthesis, photophysical and photochemical properties of quinoline substituted zinc (II) phthalocyanines and their quaternized derivatives**
BIYIKLIOĞLU Z., DURMUS M., KANTEKİN H.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.211, no.1, pp.32-41, 2010 (SCI-Expanded)
164. **The synthesis, using microwave irradiation and characterization of novel, metal-free and metallophthalocyanines**
ACAR İ., KANTEKİN H., BIYIKLIOĞLU Z.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.695, no.2, pp.151-155, 2010 (SCI-Expanded)
165. **Synthesis and characterization of octakis(4,5-bis{2-[2-(1-naphthyloxy)ethoxy]ethoxy})- substituted metal-free and metallophthalocyanines**
KARADENİZ H., ACAR İ., BIYIKLIOĞLU Z., AĞIN F., KANTEKİN H.
JOURNAL OF COORDINATION CHEMISTRY, vol.63, no.8, pp.1411-1417, 2010 (SCI-Expanded)
166. **Influence of chemical effect on the K-shell X-ray production cross-sections and radiative Auger ratios of Zn complexes**
AYLIKCI V., BIYIKLIOĞLU Z., CENGİZ E., AYLIKCI N. K., APAYDIN G., AKSOY C., TIRAŞOĞLU E., KANTEKİN H.
CHEMICAL PHYSICS, vol.365, no.3, pp.144-149, 2009 (SCI-Expanded)
167. **Synthesis, photophysical and photochemical properties of crown ether substituted zinc phthalocyanines**
DURMUS M., BIYIKLIOĞLU Z., KANTEKİN H.
SYNTHETIC METALS, vol.159, pp.1563-1571, 2009 (SCI-Expanded)
168. **Synthesis, electrochemical, in situ spectroelectrochemical and in situ electrocolorimetric characterization of new phthalocyanines peripherally fused to four flexible crown ether moieties**
BIYIKLIOĞLU Z., KOCA A., KANTEKİN H.
POLYHEDRON, vol.28, no.11, pp.2171-2178, 2009 (SCI-Expanded)
169. **The synthesis, using microwave irradiation and characterization of novel, organosoluble metal-free and metallophthalocyanines substituted with flexible crown ether moieties**
BIYIKLIOĞLU Z., KANTEKİN H.
DYES AND PIGMENTS, vol.80, no.1, pp.17-21, 2009 (SCI-Expanded)
170. **The synthesis and characterization of new organosoluble long chain-substituted metal-free and metallophthalocyanines by microwave irradiation**
BIYIKLIOĞLU Z., KANTEKİN H., ACAR İ.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.11, no.12, pp.1448-1451, 2008 (SCI-Expanded)
171. **Influence of Chemical Effect on the K-beta/K-alpha Intensity Ratios and K-beta Energy Shift of Co, Ni, Cu, and Zn Complexes**
APAYDIN G., AYLIKCI V., BIYIKLIOĞLU Z., TIRAŞOĞLU E., KANTEKİN H.
CHINESE JOURNAL OF CHEMICAL PHYSICS, vol.21, no.6, pp.591-595, 2008 (SCI-Expanded)
172. **Novel metallophthalocyanines bearing 3-(p-chlorophenyl)-5-p-tolyl-4H-1,2,4-triazole bulky substituents by microwave irradiation**
BEKİRCAN O., BIYIKLIOĞLU Z., ACAR İ., BEKTAS H., KANTEKİN H.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.693, pp.3425-3429, 2008 (SCI-Expanded)
173. **New long chain-substituted polymeric metal-free and metallophthalocyanines by microwave irradiation: Synthesis and Characterization**
BIYIKLIOĞLU Z., KANTEKİN H.
POLYHEDRON, vol.27, pp.1650-1654, 2008 (SCI-Expanded)
174. **A novel metal-free and metallophthalocyanines containing four 19-membered dithiadiazadioxo macrocycles by microwave irradiation**

- BIYIKLIOĞLU Z., KANTEKİN H.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.693, pp.505-509, 2008 (SCI-Expanded)
175. **Microwave-assisted synthesis and characterization of new polymeric phthalocyanines substituted with pyridine through methyleneoxy bridges**
KANTEKİN H., BIYIKLIOĞLU Z.
DYES AND PIGMENTS, vol.77, pp.432-436, 2008 (SCI-Expanded)
176. **Microwave-assisted synthesis and characterization of new soluble metal-free and metallophthalocyanines substituted with four tetrathiamacrocycles through oxy bridges**
BIYIKHOGLU Z., ACAR İ., KANTEKİN H.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.11, no.6, pp.630-632, 2008 (SCI-Expanded)
177. **Synthesis and characterization of new metal-free and metallophthalocyanines peripherally fused to four 15-membered tetraoxamonoazamacrocycles by microwave irradiation**
KANTEKİN H., BIYIKLIOĞLU Z., CELENK E.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.11, no.6, pp.633-635, 2008 (SCI-Expanded)
178. **The synthesis and characterization of a new (E,E)-dioxime containing 20-membered tetraazadioxa macrocyclic moieties and its mononuclear complexes**
BIYIKLIOĞLU Z., GUENER E. T., KANTEKİN H.
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.60, pp.235-240, 2008 (SCI-Expanded)
179. **Synthesis, characterization and electrochemistry of a new organosoluble metal-free and metallophthalocyanines**
Biyikhoglu Z., GUNER E. T., Topcu S., KANTEKİN H.
POLYHEDRON, vol.27, no.6, pp.1707-1713, 2008 (SCI-Expanded)
180. **New long-chain-substituted polymeric metal-free and metallophthalocyanines by microwave irradiation: Synthesis and characterization**
BYKLIÖGLU Z., KANTEKİN H.
POLYHEDRON, vol.27, no.6, pp.1650-1654, 2008 (SCI-Expanded)
181. **A new polymeric phthalocyanine containing 16-membered tetrathia macrocyclic moieties by microwave irradiation: Synthesis and characterization**
KANTEKİN H., DILBER G., BIYIKLIOĞLU Z.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.693, no.6, pp.1038-1042, 2008 (SCI-Expanded)
182. **The synthesis and characterization of a porphyrazine bearing aza-15-crown-5 moieties in the peripheral positions and its cobalt(II) complex**
KANTEKİN H., CELENK E., Biyiklioglu Z., KARADENİZ H.
TRANSITION METAL CHEMISTRY, vol.33, no.2, pp.189-193, 2008 (SCI-Expanded)
183. **The synthesis and characterization of a new (E,E)-dioxime containing 18-membered dithiadiazadioxamacrocyclic moieties and its mononuclear complexes**
Kantekin H., Bakaray A., Biyiklioglu Z., Sağlam M. B.
TRANSITION METAL CHEMISTRY, vol.33, no.2, pp.161-165, 2008 (SCI-Expanded)
184. **A novel metal-free and metallophthalocyanines containing four 19-membered dithiadiazadioxa macrocycles by microwave irradiation: Synthesis and characterization**
BIYIKHOGLU Z., KANTEKİN H.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.693, no.3, pp.505-509, 2008 (SCI-Expanded)
185. **Synthesis and characterization of new polymeric phthalocyanines substituted with pyridine through methyleneoxy bridges by microwave irradiation**
Kantekin H., BIYIKHOGLU Z.
DYES AND PIGMENTS, vol.77, no.2, pp.432-436, 2008 (SCI-Expanded)
186. **Microwave-assisted synthesis and characterization of novel metal-free and metallophthalocyanines containing four 13-membered dithiadiaza macrocycles**
Kantekin H., BIYIKLIOĞLU Z.
DYES AND PIGMENTS, vol.77, no.1, pp.98-102, 2008 (SCI-Expanded)
187. **Synthesis and characterization of novel vic-dioxime and its mononuclear complexes containing**

tetraazadioxamacrocyclic moieties

ERTEM B., GOK Y., ERTAS I. E., BIYIKLIOĞLU Z.

JOURNAL OF COORDINATION CHEMISTRY, vol.61, no.13, pp.2113-2121, 2008 (SCI-Expanded)

188. **Microwave assisted synthesis and characterization of novel metal-free and metallophthalocyanines containing four pyridyl groups**
Biyiklioglu Z., Kantekin H.
TRANSITION METAL CHEMISTRY, vol.32, no.7, pp.851-856, 2007 (SCI-Expanded)
189. **New Heavy Metal Ion-selective Macrocyclic Ligands with Nitrogen-Sulfur Donor Atoms and Their Extractant Properties**
ALP H., BIYIKLIOĞLU Z., OCAK M., OCAK Ü., KANTEKİN H., DİLBER G.
SEPARATION SCIENCE AND TECHNOLOGY, vol.42, pp.835-845, 2007 (SCI-Expanded)
190. **Synthesis and characterization of novel (E,E)-dioxime and its mono- and polynuclear metal complexes containing azacrown moieties**
Biyiklioglu Z., Ertem B., Karslioglu S., Goek Y.
TRANSITION METAL CHEMISTRY, vol.32, no.5, pp.591-596, 2007 (SCI-Expanded)
191. **Synthesis and metal-ion binding properties of new N2S4- and N2S5-donor macrocycles**
Alp H., BIYIKLIOĞLU Z., Dilber G., Ocak U., MARAP A., Kantekin H.
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.58, pp.283-288, 2007 (SCI-Expanded)
192. **Microwave-assisted synthesis and characterization of novel metal-free and metallophthalocyanines containing four 14-membered tetraaza macrocycles**
Biyiklioglu Z., Kantekin H., OEZIL M.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.692, no.12, pp.2436-2440, 2007 (SCI-Expanded)
193. **The synthesis and characterization of a new (E,E)-dioxime containing 13-membered dithiadiazamacrocyclic moieties and its mononuclear complexes**
Kantekin H., Bakaray A., Biyiklioglu Z.
TRANSITION METAL CHEMISTRY, vol.32, no.2, pp.209-213, 2007 (SCI-Expanded)
194. **New heavy metal ion-selective macrocyclic ligands with nitrogen and sulfur donor atoms and their extractant properties**
Alp H., BIYIKHOGLU Z., Ocak M., Ocak U., Kantekin H., Dilber G.
SEPARATION SCIENCE AND TECHNOLOGY, vol.42, no.4, pp.835-845, 2007 (SCI-Expanded)
195. **The synthesis and characterization of a new (E,E)-dioxime and its mono and heterotrinary complexes containing dioxadithiadiazamacrocyclic moieties**
Biyiklioglu Z., Dilber G., Kantekin H.
TRANSITION METAL CHEMISTRY, vol.31, no.8, pp.979-985, 2006 (SCI-Expanded)

Articles Published in Other Journals

1. **Electrochemical properties of non-peripherally and peripherally tetra-[(1-benzylpiperidin-4-yl)oxy] substituted phthalocyanines**
Nas A., Dilber G., Biyiklioğlu Z.
Turkish Journal of Analytical Chemistry (Online), vol.5, no.2, pp.98-106, 2023 (Peer-Reviewed Journal)
2. **Electroanalytical characterization of chloroquinoline substituted redox-active phthalocyanines**
Nas A., Dilber G., Biyiklioğlu Z.
Turkish Journal of Analytical Chemistry (Online), vol.5, no.1, pp.25-31, 2023 (Peer-Reviewed Journal)
3. **Anti-Urease, Anti-Hyaluronidase, Antioxidant Properties of Some Zinc (II) Phthalocyanines**
ŞAHİN H., BIYIKLIOĞLU Z., ÇAKIR D., ÇAKIR V., KOLAYLI S.
Current Enzyme Inhibition, vol.14, no.3, pp.186-195, 2018 (Scopus)
4. **Synthesis and electrochemical properties of new tetra-2-(4-benzyloxyphenyl) ethanol substituted metal free and metallophthalocyanines**
BAYRAK R., DEMİRBAŞ Ü., BIYIKLIOĞLU Z., AKÇAY H. T., KANTEKİN H.

Refereed Congress / Symposium Publications in Proceedings

- 1. The effect of Water Soluble Metallophthalocyanines on α -Glucosidase Activity**
Yazıcı F., Yıldırım Akatın M., Bıyıklıoğlu Z., Sağlam Ertunga N.
5th EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, Antalya, Turkey, 2 - 05 November 2023, pp.1
- 2. Synthesis of Novel Phthalocyanines and Their Usage as a Catalyst in the Photooxidation of Benzyl Alcohol**
Bıyıklıoğlu Z., Saka E. T., Öztürmen B. A., Akkol Ç.
5th Eurasia Biochemical Approaches and Technologies Congress (EBAT), Antalya, Turkey, 2 - 05 November 2023, pp.44
- 3. Interaction of Water Soluble Metallophthalocyanines with DNA and Their α -Glucosidase Inhibition Potentials**
Yazıcı F., Yıldırım Akatın M., Bıyıklıoğlu Z., Sağlam Ertunga N.
5th EURASIA BIOCHEMICAL APPROACHES & TECHNOLOGIES (EBAT) CONGRESS, Antalya, Turkey, 2 - 05 November 2023, pp.1
- 4. DNA binding and nuclease properties of magnesium (II) phthalocyanines**
Seyhan G., Barut B., Kulein B., Keleş T., Bıyıklıoğlu Z.
6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023), Ankara, Turkey, 11 - 13 October 2023, pp.48
- 5. Synthesis and investigation of aggregation properties of water-soluble octa-substituted manganese(III) phthalocyanines bearing pyridine groups magnesium (II) phthalocyanines**
Baş H., Bıyıklıoğlu Z.
6th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023), Ankara, Turkey, 11 - 13 October 2023, pp.123
- 6. Preparation and characterization of axial disubstituted silicon phthalocyanine modified nano TiO₂ thin films**
Fazlı H., Akkol Ç., Kesmez Ö., Saka E. T., Bıyıklıoğlu Z.
1st International Congress on Solutions in Science , İzmir, Turkey, 11 - 13 September 2023, pp.21
- 7. Aksiyal Disübstitüe Silisyum Ftalosiyaninlerin Sentezi ve Asetil/Butirilkolin Esteraz Enzimlerine Karşı İnhibisyon Özellikleri**
Öztürmen B. A., Bıyıklıoğlu Z., Barut B., Seyhan G.
Kromatografi XXI, Aydın, Turkey, 14 - 16 June 2023, pp.13
- 8. Anticholinesterase properties of novel phthalocyanines**
Akkaya D., Reis R., Sarı S., Bıyıklıoğlu Z., Özel A., Barut B.
International Multidisciplinary Symposium on Drug Research and Development - DRD 2023, İzmir, Turkey, 4 - 06 May 2023, pp.270
- 9. Synthesis of water soluble tetra, octa substitute zinc(II) phthalocyanines and their investigation of DNA interaction, cytotoxic and phototoxic properties**
Baş H., Bıyıklıoğlu Z., Altun Y., Yalçın C. Ö., Barut B.
5th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2022), Ankara, Turkey, 23 - 25 November 2022, pp.267
- 10. Synthesis and α -glucosidase, cholinesterases, tyrosinase enzyme inhibition properties of silicon(IV), copper(II), manganese(III) phthalocyanines**
Öztürmen B. A., Barut B., Bıyıklıoğlu Z.
4th Eurasia Biochemical Approaches and Technologies (EBAT) Congress, Antalya, Turkey, 3 - 06 November 2022, pp.97
- 11. Synthesis of New Water Soluble Cu(II) and Mn(III) Phthalocyanines and Investigation of Their**

Photocatalytic Activities on the Photoxidation of Benzyl Alcohol

Fazlı H., Akkol Ç., Osmanogulları S. C., Biyiklioğlu Z., Saka E. T., Bekircan O.

4.EBAT Eurasia Biochemical Approaches Technologies Congress, Antalya, Turkey, 3 - 06 November 2022, pp.78

12. **Role of Toll-Like Receptors in Photodynamic Therapy of Novel Zn(II) Phtalocyanine Compound On Lung Cancer Cells**
Barut B., Altun Ali Y., Akkaya D., Barut E. N., Baş H., Yalçın C. Ö., Biyiklioğlu Z.
International Biochemistry Congress 2022, İzmir, Turkey, 26 - 30 October 2022, pp.44
13. **Silisyum ftalosiyanın bileşiğinin A549 hücre hattına karşı fototoksik etkisinin incelenmesi**
Barut B., Yalçın C. Ö., Biyiklioğlu Z.
31. Ulusal Biyokimya Kongresi 2020, Ankara, Turkey, 18 - 20 December 2020, pp.1
14. **Silisium phtalocyanine sensitized TiO2 nanomaterials**
ALTIN İ., BIYIKLIOĞLU Z., SÖKMEN M.
7th Black Sea Basin Conference on analytical Chemistry, 10-15 September 2015, Bulgaria, pp.1
15. **Fe (II) ve Co(II) Ftalosiyanınların Sentezi, Karakterizasyonu ve Siklohegzenin Okidasyon Reaksiyonu Üzerine Katalitik Etkisinin Araştırılması**
KANTEKİN H., SAKA E. T., BIYIKLIOĞLU Z.
4. Ulusal Anorganik Kimya Kongresi, Tokat, Turkey, pp.58
16. **"Mikrodalga Yardımıyla Co(II) Ftalosiyanın Sentezi, Karakterizasyonu ve Alkol Oksidasyonu Üzerine Katalitik Aktivitesinin İncelenmesi**
SAKA E. T., BIYIKLIOĞLU Z., Kani İ., KANTEKİN H.
4th National Catalysis Conference, Kocaeli, Turkey, pp.104
17. **'Kobalt(II) Ftalosiyanın; Mikrodalga Sentezi, Karakterizasyonu ve Siklohegzen Oksidasyonu Üzerine Katalitik Etkisinin İncelenmesi**
SAKA E. T., Kani İ., BIYIKLIOĞLU Z., KANTEKİN H.
4th National Catalysis Conference, Kocaeli, Turkey, pp.182
18. **'Synthesis, Characterization and Catalytic Activity on Cyclohexene Oxidation of Peripherally Tetra-Substituted Cobalt(II) Phthalocyanine**
SAKA E. T., BIYIKLIOĞLU Z., Kani İ., KANTEKİN H.
4th European Chemistry Congress, Czech Republic, pp.987
19. **Metalsiz ve Metalli Ftalosiyanınların Sentezi, Karakterizasyonu ve Co(II) Ftalosiyanın Katalitik Aktivitesinin İncelenmesi**
SAKA E. T., Gökçe S., BIYIKLIOĞLU Z., KANTEKİN H.
4. Ulusal Anorganik Kimya Kongresi, Tokat, Turkey, pp.57
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SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.
21. Ulusal Kimya Kongresi konferansı, Malatya, Turkey, pp.48
21. **Yeni Bir Okta-Substitued Metal-Free ve Metalofthalosiyanınların Sentezi ve Karakterizasyonu**
BIYIKLIOĞLU Z., SAKA E. T., KANTEKİN H.
21. Ulusal Kimya Kongresi konferansı, Malatya, Turkey, pp.20
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SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.
1. Ulusal Anorganik Kimya Günleri, Adana, Turkey, pp.48
23. **'Synthesis, Characterization of Co(II) Phthalocyanine and Investigation of Its Catalytic Activity on Alcohol Oxidation**
BIYIKLIOĞLU Z., SAKA E. T., Çakır D., Çakır V., KANTEKİN H.
4th European Chemistry Congress, Czech Republic, pp.987
24. **Synthesis, characterization and catalytic activities on benzyl alcohol, styrene oxidation of different group substituted Co(II) phtalocyanines**
SAKA E. T., BIYIKLIOĞLU Z., ACAR İ., KANTEKİN H., Kani İ.
3rd European Chemistry Congress, Germany, pp.3

25. **'Synthesis, Characterization, Photophysical, Photochemical and Aggregation Behavior of 4-[2-(1,4-Dioxa-8-azaspiro[4.5]dec-8-yl)]ethoxy-Substituted Phthalocyanine**
SAKA E. T., Göl C., Durmuş M., KANTEKİN H., BIYIKLIOĞLU Z.
4th European Chemistry Congress, Czech Republic, pp.986
26. **Yeni Çözünür Ftalosiyanınların Sentezi, Karakterizasyonu, Elektrokimyasal ve Termal Özelliklerinin İncelenmesi**
BIYIKLIOĞLU Z., KANTEKİN H., Topcu S.
II. Ulusal Anorganik Kimya Kongresi, Elazığ, Turkey, pp.116
27. **Evaluation of The Anticancer Activities of Liposomal Zinc(II) Phthalocyanine Bearing Ferrocene Groups and Erlotinib on A549 Cancer Cell Line**
ÇOBAN Ö., BARUT B., YALÇIN C. Ö., ÖZEL A., BIYIKLIOĞLU Z.
8th BBBB International Conference on Pharmaceutical Sciences, 14 - 16 October 2019, pp.62
28. **Electrochemical and Aggregation Properties of New Silicon Phthalocyanine**
SAKA E. T., YALAZAN H., BIYIKLIOĞLU Z., KANTEKİN H.
4th Organic Chemistry Congress, Antalya, Turkey, 4 - 07 October 2019, pp.22
29. **Water Soluble Silicon Naphthalocyanine and its DNA Binding, Photocleavage, Topoisomerase Inhibition Properties**
KELEŞ T., BARUT B., BIYIKLIOĞLU Z., ÖZEL A.
1.Euroasia Biochemical Approaches & Technologies Congress, Antalya, Turkey, 27 - 30 October 2018, pp.75
30. **Cytotoxic effects of silicon phthalocyanine, naphthalocyanine bearing acetyl piperazine groups and their water soluble derivatives**
BAŞ H., BARUT B., ÖZEL A., BIYIKLIOĞLU Z.
1.Euroasia Biochemical Approaches & Technologies Congress, Antalya, Turkey, 27 - 30 October 2018, pp.74
31. **Investigation of Anticancer Potential of Silicon (iv) Phthalocyanine and Naphthalocyanine**
BARUT B., ÖZEL A., KELEŞ T., BIYIKLIOĞLU Z.
TBS International Biochemistry Congress 2018 29th National Biochemistry Congress, Muğla, Turkey, 26 - 30 October 2018, pp.51
32. **Non-Aggregated and Water Soluble Silicon Naphthalocyanine Bearing Acetyl Piperazine Units: Synthesis, DNA Interaction and Topoisomerase Inhibition**
BIYIKLIOĞLU Z., ÖZEL A., BARUT B., BAŞ H.
4th Organic Chemistry Congress, Antalya, Turkey, 4 - 07 October 2018, pp.340
33. **CYTOTOXIC EFFECTS OF SILICON PHTHALOCYANINE, NAPHTHALOCYANINE AND THEIR WATER SOLUBLE DERIVATIVES**
ÖZEL A., BARUT B., BIYIKLIOĞLU Z.
12th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Turkey, 26 - 29 June 2018, pp.334
34. **The synthesis of water soluble silicon phthalocyanine and investigation of its DNA binding, DNA photocleavage, topoisomerase I,II inhibition**
BIYIKLIOĞLU Z., KELEŞ T., BARUT B., ÖZEL A.
International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 - 27 April 2018, pp.707
35. **Water soluble silicon phthalocyanine bearing piperazine units and investigation of its DNA binding, DNA photocleavage, topoisomerase I,II inhibition**
BIYIKLIOĞLU Z., BAŞ H., ÖZEL A., BARUT B.
International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 - 27 April 2018, pp.709
36. **Determination K Shell Fluorescence Parameters for Titanium, Its Compounds and Complexes By Means of 5.96 keV Photons**
Koksal O. K., APAYDIN G., BIYIKLIOĞLU Z., BEKİRCAN O., Cengiz E., Karabulut K.
33rd International Physics Congress of the Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 10 September 2017, vol.1935
37. **Water Soluble Silicon Phthalocyanines, Naphthalocyanines and Investigations of Their DNA Binding, DNA Photocleavage, Topoisomerase I Inhibition**
Sofuoğlu A., BIYIKLIOĞLU Z., BARUT B., ÖZEL A.

- Ancon-International Congress on Chemistry and Materials Science, Ankara, Turkey, 5 - 07 October 2017, pp.39
38. **Water soluble silicon phthalocyanines, naphthalocyanines and investigation of their DNA binding, DNA photocleavage, topoisomerase I inhibition**
Sofuoğlu A., BIYIKLIOĞLU Z., BARUT B., ÖZEL A.
International Congress on Chemistry and Materials Science, 5 - 07 October 2017, vol.8
39. **DNA/Protein Binding and DNA Photocleavage Properties of the Water Soluble BODIPY Compounds**
BARUT B., ÖZEL A., BIYIKLIOĞLU Z.
International Biochemistry Congress-28.Ulusal Biyokimya Kongresi, Erzurum, Turkey, 19 - 23 September 2017, pp.40
40. **Photocatalytic activity of TiO₂ modified by silicon phthalocyanine in dye-sensitized solar cells and degradation of methylene blue**
Sökmen M., ALTIN İ., Koç Keşir M., Biyıklıoğlu Z.
6th International conference on semiconductor photochemistry, Oldenburg, Germany, 11 - 14 September 2017, pp.167
41. **Synthesis, characterization and electrochemical properties of Co(II) and Cu(II) phthalocyanines**
ÇAĞLAR Y., SAKA E. T., BIYIKLIOĞLU Z.
Euroanalysis, 28 August - 01 September 2017, vol.28, pp.28
42. **Spectrophotometric determination of mercury in water samples after dispersive liquid-liquid microextraction**
ÇAĞLAR Y., BIYIKLIOĞLU Z.
Euroanalysis, 28 August - 01 September 2017, vol.190, pp.190
43. **Inhibition effects of some phthalocyanines on carbonic anhydrases**
TÜRKOĞLU E. A., ARSLAN T., BIYIKLIOĞLU Z., ŞENTÜRK M.
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, 26 - 29 April 2017, vol.602, pp.821
44. **The water soluble peripherally tetra-substituted metallo phthalocyanines as new potential anticancer agents**
BARUT B., BIYIKLIOĞLU Z., ÖZEL A., SOFUOĞLU A.
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017, pp.857
45. **Investigation of Cholinesterase Inhibition of Novel BODIPY Compounds**
ÖZEL A., BIYIKLIOĞLU Z., ARSLAN T., BARUT B., KELEŞ T.
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017, pp.213
46. **The Water Soluble Pyridine Substituted Mn(III) and Cu(II) Phthalocyanines: DNA/BSA Binding, DNA Photocleavage and Antioxidant Activities**
BARUT B., BIYIKLIOĞLU Z., ÖZEL A., KELEŞ T.
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017, pp.212
47. **DNA binding photocleavage and topoisomerase I inhibition of novel water soluble phthalocyanine compounds**
BARUT B., ÖZEL A., BIYIKLIOĞLU Z.
41th FEBS Congress, 5 - 08 September 2016
48. **DNA binding, photocleavage and topoisomerase I inhibition of novel water soluble phthalocyanine compounds**
Barut B., ÖZEL A., SOFUOĞLU A., BIYIKLIOĞLU Z.
41st FEBS Congress on Molecular and Systems Biology for a Better Life, Kusadasi, Turkey, 3 - 08 September 2016, vol.283, pp.156
49. **Electropolymerization of metallophthalocyanines and their application as pesticide sensors**
Özen Ü., Keleş T., BIYIKLIOĞLU Z., ÖZKAYA A. R., KOCA A.
The 67th Annual Meeting of the International Society of Electrochemistry, 21 - 26 August 2016
50. **Metallophthalocyanine based conducting electroactive electropolymers and their applications as**

electrochemical pesticide sensors

KOCA A., ÖZKAYA A. R., Özen Ü., BIYIKLIOĞLU Z.

229th ECS Meeting, 29 May - 02 June 2016

51. **Synthesis of polyfluoro substituted new Co II Fe II phthalocyanines and their usage as catalysts for aerobic oxidation of benzyl alcohol**
aktaş a., ACAR İ., SAKA E. T., BIYIKLIOĞLU Z.
2nd International Conference on Organic Electronic Material Technologies, 17 - 19 May 2016, vol.63, pp.134
52. **Synthesis and electropolymerization properties of cobalt manganese and titanium phthalocyanines bearing 4 2 morpholin 4 ylethoxy benzyl oxy groups**
Özen Ü., Keleş T., BIYIKLIOĞLU Z., KOCA A.
2nd International Conference on Organic Electronic Material Technologies, 17 - 19 May 2016, vol.71, pp.145
53. **Peripheral tetra substituted metallophthalocyanines carrying redox active cobalt II manganese III titanium IV center and their electropolymerization properties**
Keleş T., Özen Ü., BIYIKLIOĞLU Z., KOCA A.
2nd International Conference on Organic Electronic Material Technologies, 17 - 19 May 2016, vol.134, pp.231
54. **Synthesis and electrochemical properties of electropolymerizable metallophthalocyanines bearing 2 4 1E 4 morpholin 4 ylphenyl methylene amino phenyl ethoxy groups**
Keleş T., Özen Ü., KOCA A., BIYIKLIOĞLU Z.
2nd International Conference on Organic Electronic Material Technologies, 17 - 19 May 2016, vol.135, pp.232
55. **Electropolymerizable non aggregated axially disubstituted silicon naphthalocyanines and their electrochemical properties**
BIYIKLIOĞLU Z., ALP H.
2nd International Conference on Organic Electronic Material Technologies, 17 - 19 May 2016, vol.72, pp.146
56. **'Peripherally tetra-{2-(2,3,5,6-tetrafluorophenoxy)ethoxy} substituted cobalt(II), iron(II) metallophthalocyanines: Synthesis and their electrochemical, catalytic activity studies**
Aktaş A., ACAR İ., BIYIKLIOĞLU Z., SAKA E. T.
2nd International Conference on Organic Electronic Material Technologies, OEMT2016, Çanakkale, Turkey, 17 - 19 May 2016, pp.111-112
57. **'Synthesis of polyfluoro substituted Co(II), Fe(II) phthalocyanines and their usage as catalysts for aerobic oxidation of benzyl alcohol**
Aktaş A., ACAR İ., SAKA E. T., BIYIKLIOĞLU Z.
2nd International Conference on Organic Electronic Material Technologies, OEMT2016, Çanakkale, Turkey, 17 - 19 May 2016, pp.109-110
58. **Titanyum(IV) Ftalosiyenin Bileşiklerinin DNA Etkileşimleri ve Antioksidan Aktivitelerinin İncelenmesi**
BARUT B., ÖZEL A., DEMİRBAŞ Ü., BIYIKLIOĞLU Z.
XXVII. Ulusal Biyokimya Kongresi, Antalya, Turkey, 3 - 06 November 2015, vol.40, no.1, pp.256
59. **Silisium phthalocyanine sensitized TiO2 nanomaterials**
SÖKMEN M., ALTIN İ., BIYIKLIOĞLU Z.
7th Black Sea basin Conference on Analytical Chemistry 7BBCAC, Varna, Bulgaria, 10 - 15 September 2015, pp.10
60. **Determination of Mercury II In Water Samples By Dispersive Liquid Liquid Microextraction After Derivatization With a Phthalocyanine Combined With UV Vis Spectrophotometry**
ÇAĞLAR Y., BIYIKLIOĞLU Z.
18 th edition of Euroanalysis The European Conference on Analytical Chemistry, Bordeaux, France, 6 - 10 September 2015, pp.130
61. **Okta benzotiyazol süstitüe grup içeren metalsiz ve metalli ftalosiyeninlerin elektrokimyasal davranışlarının incelenmesi**
NAS A., BIYIKLIOĞLU Z., KANTEKİN H.
V.Ulusal Anorganik Kimya Kongresi, Mersin, Turkey, 22 - 25 April 2015
62. **Okta-Benzotiyazol Süstitüe Grup İçeren Metalsiz ve Metalli Ftalosiyeninlerin Elektrokimyasal Davranışlarının İncelenmesi**

NAS A., BIYIKLIOĞLU Z., KANTEKİN H.

V. Ulusal Anorganik Kimya Kongresi, Mersin, Turkey, 22 - 25 April 2015, pp.31

63. **Synthesis characterization and investigation of catalytic activity of iron and cobalt phthalocyanines on benzyl alcohol oxidation bearing 4,2,2,3-Trifluoromethyl phenoxy ethoxy ethoxy groups**
AKTAŞ A., ACAR İ., SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.
1st International Conference on Organic Electronic Material, 25 - 28 March 2015
64. **Non aggregated axially 1H naphtho 1,2-e,1,3-oxazin 2,3H-yl group substituted silicon phthalocyanines Synthesis and electrochemistry**
Baş H., BIYIKLIOĞLU Z.
1st International Conference on Organic Electronic Material Technologies, Elazığ, Turkey, 25 - 28 March 2015, pp.75-76
65. **Synthesis, characterization and investigation of catalytic activity of iron and cobalt phthalocyanines on benzyl alcohol oxidation bearing 4-(2-{2-[3-(trifluoromethyl)phenoxy]ethoxy}ethoxy) groups**
Akteş A., ACAR İ., SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.
1st International Conference on Organic Electronic Material Technologies (OEMT 2015), Elazığ, Turkey, 25 March - 28 April 2015, pp.109-110
66. **'Highly selective oxidation of benzyl alcohol catalyzed by new peripherally tetra-substituted Fe(II) and Co(II) phthalocyanines**
Çakır V., SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.
National Catalysis Conference, NCC-5., Adana, Turkey, 23 - 26 April 2014, pp.116
67. **Suda çözülebilen yeni çinko ftalosiyanınların sentezi ve fotodinamik terapi uygulamaları**
CAKIR V., CAKIR D., BIYIKLIOĞLU Z., DURMUS M., KANTEKİN H.
I. Ulusal Organik Kimya Kongresi, Sakarya, Turkey, 25 - 29 October 2013, pp.150
68. **Yeni periferel ve non-periferel tetra süstitüe çinko ftalosiyanınların sentezi, fotofiziksel ve fotokimyasal özelliklerinin incelenmesi**
CAKIR V., CAKIR D., BIYIKLIOĞLU Z., DURMUS M., KANTEKİN H.
I. Ulusal Organik Kimya Kongresi, Sakarya, Turkey, 25 - 29 October 2013, pp.151
69. **Synthesis, characterization, photophysical, photochemical and aggregation behavior of 4-[2-(1,4-dioxo-8-azaspiro[4,5]dec-8-yl)ethoxy-substituted phthalocyanines**
SAKA E. T., GOL C., DURMUS M., KANTEKİN H., BIYIKLIOĞLU Z.
4th EuCheMs Chemistry Congress, Prague, Czech Republic, 26 - 30 August 2012, pp.251
70. **Synthesis, characterization and catalytic activity on cyclohexene oxidation of peripherally tetra-substituted cobalt(II) phthalocyanine**
SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.
4th EuCheMs Chemistry Congress, Prague, Czech Republic, 26 - 30 August 2012, pp.253
71. **Synthesis and characterization of Co(II) phthalocyanine and investigation of its catalytic activity on alcohol oxidation**
BIYIKLIOĞLU Z., SAKA E. T., CAKIR D., CAKIR V., KANTEKİN H.
4th EuCheMs Chemistry Congress, Prague, Czech Republic, 26 - 30 August 2012, pp.252
72. **Peripheral and non-peripheral tetra-substituted water soluble zinc(II) phthalocyanines Synthesis, photophysics, and photochemistry**
BIYIKLIOĞLU Z., CAKIR D., DURMUS M., KANTEKİN H.
4th EuCheMs Chemistry Congress, Prague, Czech Republic, 26 - 30 August 2012, pp.254
73. **Non-Periferel Tetra Süstitüe Metalsiz ve Metalli Ftalosiyanınların Sentezi, Karakterizasyonu ve Elektrokimyasal Özelliklerinin İncelenmesi**
BIYIKLIOĞLU Z., CAKIR V., KOCA A., KANTEKİN H.
III. Ulusal Anorganik Kimya Kongresi, Çanakkale, Turkey, 19 - 22 May 2011, pp.287
74. **Suda Çözünür Yeni Ftalosiyanınların Sentezi ve Fotodinamik Terapi Özelliklerinin İncelenmesi**
BIYIKLIOĞLU Z., DURMUS M., KANTEKİN H.
III. Ulusal Anorganik Kimya Kongresi, Çanakkale, Turkey, 19 - 22 May 2011, pp.303
75. **Tetrakis (4-?-[2-(2-Naftiloksi)Etoksi]Etoksi?) Grubu İçeren Yeni Ftalosiyanınlar**

- ACAR İ., BIYIKLIOĞLU Z., BASARAN D., KANTEKİN H.
III. Ulusal Anorganik Kimya Kongresi, Çanakkale, Turkey, 19 - 22 May 2011, pp.67
76. **6-Oksikinolin Grubu İçeren Yeni Oktaktyonik Ftalosiyanimler**
BIYIKLIOĞLU Z., KANTEKİN H.
III. Ulusal Anorganik Kimya Kongresi, Çanakkale, Turkey, 19 - 22 May 2011, pp.304
77. **Yeni Periferel ve Non-Periferel Tetra Süstitüe Çinko Ftalosiyanimlerin Sentezi, Fotofiziksel ve Fotokimyasal Özelliklerinin İncelenmesi**
ACAR İ., BIYIKLIOĞLU Z., DURMUS M., KANTEKİN H.
III. Ulusal Anorganik Kimya Kongresi, Çanakkale, Turkey, 19 - 22 May 2011, pp.167
78. **18-Crown-6 Birimleri Taşıyan Metal Ftalosiyanim Komplekslerinin İyon Ekstraksiyon Özellikleri**
CAGLAR Y., BIYIKLIOĞLU Z., KANTEKİN H., OCAK Ü.
24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June - 02 July 2010, pp.18
79. **Yeni Bir Non-Periferel Süstitüe Grup İçeren Co(II) Ftalosiyanimin Sentezi, Karakterizasyonu ve Stiren Oksidasyonundaki Katalitik Aktivitesinin İncelenmesi**
SAKA E. T., BIYIKLIOĞLU Z., ACAR İ., KANTEKİN H.
Organometalik Kimya ve Kataliz Çalıştayı, Malatya, Turkey, 16 - 17 May 2010, pp.12
80. **Yeni Çözünür Ftalosiyanimlerin Sentezi ve Karakterizasyonu**
BIYIKLIOĞLU Z., KANTEKİN H., ACAR İ.
XXIII. Ulusal Kimya Kongresi, Sivas, Turkey, 16 - 20 June 2009, pp.44
81. **Yeni Oktakis-Esnek 12-Taç-4 Grup İçeren Metl-free ve Metal Ftalosiyanimlerin Sentezi ve Karakterizasyonu**
BIYIKLIOĞLU Z., YILDIZ S. Z., KANTEKİN H.
XXIII. Ulusal Kimya Kongresi, Sivas, Turkey, 16 - 20 June 2009, pp.45
82. **Süstitüe Tetrakis-[2-(1-Naftiloksi)Etoksi] Ftalosiyanimlerin Sentezi ve Karakterizasyonu**
ACAR İ., BIYIKLIOĞLU Z., KANTEKİN H.
II. Ulusal Anorganik Kimya Kongresi, Elazığ, Turkey, 16 - 19 May 2009, pp.133
83. **N₂S₂O₂ türü makrosiklik grup taşıyan 18 üyeli yeni (E,E)-dioksim, metal komplekslerinin sentezi ve karakterizasyonu**
NAS A., BIYIKLIOĞLU Z., KANTEKİN H., KILICASLAN M. B.
II. Ulusal Anorganik Kimya Kongresi, Elazığ, Turkey, 16 - 19 May 2009, pp.17
84. **N₂S₂O₂ Türü Makrosiklik Grup Taşıyan 18 Üyeli Yeni (E,E)-Dioksim, Metal Komplekslerinin Sentezi ve Karakterizasyonu**
NAS A., BIYIKLIOĞLU Z., KANTEKİN H., KILICASLAN M. B.
II. Ulusal Anorganik Kimya Kongresi, Elazığ, Turkey, 16 - 19 May 2009, pp.17
85. **Periferel Olarak Esnek Taç Eter Grup İçeren Yeni Ftalosiyanimler**
KANTEKİN H., BIYIKLIOĞLU Z.
II. Ulusal Anorganik Kimya Kongresi, Elazığ, Turkey, 16 - 19 May 2009, pp.48
86. **Suda Çözünebilen Yeni Tetraktyonik Ftalosiyanimler**
BIYIKLIOĞLU Z., KANTEKİN H.
II. Ulusal Anorganik Kimya Kongresi, Elazığ, Turkey, 16 - 19 May 2009, pp.263
87. **Yeni Çözünür Tetrakis ve Oktakis Süstitüe Ftalosiyanimlerin Sentezi ve Karakterizasyonu**
ACAR İ., BIYIKLIOĞLU Z., KANTEKİN H.
II. Ulusal Anorganik Kimya Kongresi, Elazığ, Turkey, 16 - 19 May 2009, pp.134
88. **A novel dibenzo-18-crown-6 derivative for the liquid-liquid extraction, separation, preconcentration, and spectrophotometric determination of gold in environmental samples**
BULUT V. N., DURAN C., BIYIKLIOĞLU Z., TÜFEKÇİ M., SOYLAK M.
6th Aegean Analytical Chemistry Days, Denizli, Turkey, 9 - 12 October 2008, pp.184
89. **1,2,4-Triazol Grup İçeren Yeni Metalli Ftalosiyanimlerin Sentezi ve Karakterizasyonu**
ACAR İ., BIYIKLIOĞLU Z., BEKİRCAN O., BEKTAS H., KANTEKİN H.
XXII. Ulusal Kimya Kongresi, Gazimagusa, Turkey, 6 - 10 October 2008, pp.72
90. **Azalkon Grubu İçeren Yeni Ftalosiyanimlerin Sentezi ve Karakterizasyonu**

BIYIKLIOĞLU Z., ACAR İ., KANTEKİN H., KAHRİMAN N.

XXII. Ulusal Kimya Kongresi, Gazimagusa, Turkey, 6 - 10 October 2008, pp.145

91. **Karışık Donörlü Makrobisiklik Grup İçeren Metalsiz ve Metalli Ftalosiyanın Sentezi ve Karakterizasyonu**
ACAR İ., BIYIKLIOĞLU Z., KANTEKİN H.
XXII. Ulusal Kimya Kongresi, Gazimagusa, Turkey, 6 - 10 October 2008, pp.73
92. **16 Üyeli Makrosiklik Grup İçeren Metalsiz ve Metalli Ftalosiyanın Sentezi ve Karakterizasyonu**
BIYIKLIOĞLU Z., ACAR İ., KANTEKİN H.
XXII. Ulusal Kimya Kongresi, Gazimagusa, Turkey, 6 - 10 October 2008, pp.144
93. **Synthesis, characterization and electrochemistry of a new soluble metal-free and metallophthalocyanines substituted with flexible crown ether moieties by microwave irradiation**
BIYIKLIOĞLU Z., KANTEKİN H., Topcu S.
Fifth International Conference on Porphyrins and Phthalocyanines, Moscow, Russia, 6 - 11 July 2008, pp.309
94. **Synthesis and characterization of new metal-free and metallophthalocyanines peripherally fused to 15-membered tetraoxamonoazamacrocycles by microwave irradiation**
BIYIKLIOĞLU Z., KANTEKİN H., ACAR İ.
Fifth International Conference on Porphyrins and Phthalocyanines, Moscow, Russia, 6 - 11 July 2008, pp.310
95. **Bakırın Bir Benzo-15- Crown-5 Türevi ile Sıvı-Sıvı Ekstraksiyonu ve Spektrometrik Tayini**
BULUT V. N., DURAN C., BIYIKLIOĞLU Z., TÜFEKÇİ M., Gündoğdu A., Soylak M.
IV. Analitik Kimya Kongresi, Elazığ, Turkey, 25 - 27 June 2008, pp.163
96. **16 Üyeli Tetratiya Makrosiklik Grup İçeren Yeni Bir Polimerik Ftalosiyanın Sentezi ve Karakterizasyonu**
DİLBER G., KANTEKİN H., BIYIKLIOĞLU Z.
XXI. Ulusal Kimya Kongresi, Malatya, Turkey, 23 - 27 August 2007, pp.30
97. **Piridin Grubu İçeren Yeni Bir Polimerik Ftalosiyanın Ve Metal Komplekslerinin Sentezi Ve Karakterizasyonu**
BIYIKLIOĞLU Z., KANTEKİN H.
XXI. Ulusal Kimya Kongresi, Malatya, Turkey, 23 - 27 August 2007, pp.20
98. **Microwave-assisted Synthesis and Characterization of Novel Metal-free and Metallophthalocyanines Containing Four 14-Membered Tetraaza Macrocycles**
BIYIKLIOĞLU Z., KANTEKİN H., OEZİL M.
International Conference on Organic Chemistry, Erzurum, Turkey, 5 - 09 July 2007, pp.359
99. **Microwave-assisted Synthesis and Characterization of Novel Metal-free and Metallophthalocyanines Containing Four 13-Membered Dithiadiazia Macrocycles**
BIYIKLIOĞLU Z., KANTEKİN H.
International Conference on Organic Chemistry, Erzurum, Turkey, 5 - 09 July 2007, pp.60
100. **Yeni Bir Metalsiz ve Metal Ftalosiyanın Sentezi ve Karakterizasyonu**
BIYIKLIOĞLU Z., KANTEKİN H.
1. Ulusal Anorganik Kimya Günleri, Adana, Turkey, 20 - 23 April 2007, pp.159
101. **N2S2O2 Donörlü Makrosiklik Grup Taşıyan Yeni Bir Ftalosiyanın Sentezi ve Karakterizasyonu**
BIYIKLIOĞLU Z., KAYA E. C., KANTEKİN H.
1. Ulusal Anorganik Kimya Günleri, Adana, Turkey, 20 - 23 April 2007, pp.158
102. **N2S2 türü makrosiklik grup taşıyan yeni (E,E)-dioksim, metal komplekslerinin sentezi ve karakterizasyonu**
BAKARAY A., BIYIKLIOĞLU Z., KANTEKİN H.
1. Ulusal Anorganik Kimya Günleri, Adana, Turkey, 20 - 23 April 2007, pp.135
103. **Yeni N2S4 Donörlü 20 Üyeli Üyeli Makrosiklik Ligandların Sentezi Karakterizasyonu Ve Ekstraksiyon Özelliklerinin İncelenmesi**
DİLBER G., BIYIKLIOĞLU Z., ALP H., OCAK Ü.
XX. Ulusal Kimya Kongresi, Turkey, 4 - 08 September 2006
104. **Yeni N2S5 Donörlü 23 Üyeli Üyeli Makrosiklik Ligandların Sentezi, Karakterizasyonu ve Ekstraksiyon**

Özelliklerinin İncelenmesi

ALP H., BIYIKLIOĞLU Z., DİLBER G., MARAP A., OCAK M.

XX. Ulusal Kimya Kongresi, Turkey, 4 - 08 September 2006

105. **Yeni Bir 18-Üyeli Ditiyatetraaza Makrosiklik Grup İçeren (E,E)-Dioksim Sentezi ve Mono, Heteronükleer Komplekslerinin İncelenmesi**
DİLBER G., BIYIKLIOĞLU Z., KANTEKİN H.
XX. Ulusal Kimya Kongresi, Kayseri, Turkey, 4 - 08 September 2006, pp.72
106. **Makrobisiklik Grup Taşıyan Yeni (E,E)-dioksim ve Metal Komplekslerinin Sentezi, Karakterizasyonu ve Ekstraksiyon Özelliklerinin İncelenmesi**
BIYIKLIOĞLU Z., DİLBER G., KANTEKİN H.
XX. Ulusal Kimya Kongresi, Kayseri, Turkey, 4 - 08 September 2006, pp.156
107. **MAKROBİSİKLİK GRUP TAŞIYAN YENİ (E,E)-DİOKSİM ve METAL KOMPLEKSLERİNİN SENTEZİ ve KARAKTERİZASYONU**
ERTEM B., ERTAŞ İ. E., BIYIKLIOĞLU Z., GÖK Y.
XIX. Ulusal Kimya Kongresi, Aydın, Turkey, 30 September - 04 October 2005, pp.256
108. **YENİ BİR (E,E)-DİOKSİM SENTEZİ ve GEÇİŞ METAL KOMPLEKSLERİNİN İNCELENMESİ**
BIYIKLIOĞLU Z., ERTEM B., GÖK Y., KARSLIOĞLU S.
XIX. Ulusal Kimya Kongresi, Aydın, Turkey, 30 September - 04 October 2005, pp.399
109. **Kobalt(II) Ftalosiyanın; Mikrodalga Sentezi, karakterizasyonu ve siklohegzen oksidasyonu üzerine katalitik etkisinin incelenmesi**
KANTEKİN H., SAKA E. T., BIYIKLIOĞLU Z.
4. Ulusal Kataliz Konferansı, Kocaeli, Turkey, 21 March 2012 - 24 March 2012, pp.315
110. **Mikrodalga Yardımıyla Co(II) Ftalosiyanın Sentezi, Karakterizasyonu ve Alkol Oksidasyonu Üzerine Katalitik Aktivitesinin İncelenmesi**
SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.
4. Ulusal Kataliz Konferansı, Kocaeli, Turkey, 21 March 2012 - 24 March 2012, pp.9

Academic and Administrative Experience

2019 - 2022	Head of Department	Karadeniz Technical University, Fen Fakültesi, Kimya Bölümü
2010 - 2012	Head of Department	Karadeniz Technical University, Maçka Meslek Yüksekokulu, Kimya Ve Kimyasal İşlem Teknolojileri Bölümü

Advising Theses

- Bıyıkhoğlu Z., Suda Çözünebilen Yeni Silisyum Ftalosiyanınların Sentezi ve Meme, Melanoma, Prostat, Karaciğer, Akciğer Kanseri Hücre Hatları Üzerine Antikanser İlaç Potansiyellerinin Araştırılması, Doctorate, H.BAŞ(Student), 2023
- Bıyıkhoğlu Z., Aksiyal Disüstitüe Silisyum(IV), Periferik Tetra Süstitüe Bakır(II), Mangan(III) Ftalosiyanınların Sentezi ve Bazı Enzimlere Karşı İnhibisyon Özellikleri, Postgraduate, B.ARIN(Student), 2022
- BIYIKLIOĞLU Z., Periferik ve Non-Periferik Pozisyonlarda Pirok Grupları İçeren Kobalt, Mangan Ftalosiyanınları ve Elektrokimyasal Özellikleri, Postgraduate, A.Sofuoğlu(Student), 2019
- BIYIKLIOĞLU Z., Redoks Aktif Kobalt, Titanyum, Mangan Metalli Ftalosiyanınların Sentezi Ve Elektropolimerizasyon Özellikleri, Postgraduate, T.Keleş(Student), 2017
- BIYIKLIOĞLU Z., Aksiyal Süstitüe Yeni Silisyum Ftalosiyanınların Sentezi, Karakterizasyonu ve Elektrokimyasal Özelliklerinin İncelenmesi, Postgraduate, H.BAŞ(Student), 2016
- Bıyıkhoğlu Z., Synthesis and investigation of photodynamic therapy properties of new water soluble zinc phthalocyanines, Doctorate, D.Çakır(Student), 2015
- BIYIKLIOĞLU Z., Periferik Tetra Süstitüe Metallsiz ve Metalli Ftalosiyanınların Sentezi, Karakterizasyonu ve

Elektrokimyasal Özelliklerinin İncelenmesi, Postgraduate, İ.ÖMEROĞLU(Student), 2014

Patent

Water-Soluble, Non-Aggregated Silicon Phtalocyanine Compounds Having In Vitro Anticancer Effect Against Cancer Types of Lung, Liver, Brest And Melanoma, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: WO2020068015 , Standard Registration, 2024

Bıyıkloğlu Z., Arslan T., Şentürk M., Asetilkolinesteraz İnhibitör Etkili Suda Çözünür Kobalt(II) Ftalosiyanın Bileşikleri ve Bunların Sentez Yöntemi, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: 2019/23135 , Standard Registration, 2022

Bıyıkloğlu Z., Özel A., Barut B., Keleş T., Suda Çözünebilen Agregasyon Göstermeyen Akciğer Karaciğer Meme ve Melanoma Kanseri Türlerine Karşı In Vitro Antikanser Etkili Yeni Bir Silisyum Ftalosiyanın Bileşiği, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: 2018/14012 , Standard Registration, 2022

Bıyıkloğlu Z., Barut B., Baş H., Özel A., DNA ile etkileşebilen, topoizomeras inhibityonu gösteren ve antikanser etkili suda çözünebilen, agregasyon göstermeyen yeni bir silisyum ftalosiyanın bileşiği ve sentez yöntemi, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: 201814010 , Standard Registration, 2021

Activities in Scientific Journals

Karadeniz Chemical Science and Technology, Editor, 2017 - Continues

Memberships / Tasks in Scientific Organizations

Türkiye Kimya Derneği, Member, 2012 - Continues

Kataliz Derneği, Member, 2012 - Continues

Society of Porphyrins and Phthalocyanines, Member, 2010 - Continues

Metrics

Publication: 316

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H-Index (WoS): 33

H-Index (Scopus): 34

Congress and Symposium Activities

4. EBAT Eurasia Biochemical Approaches Technologies Congress, Attendee, Antalya, Turkey, 2022

33. uluslararası Biyokimya Kongresi, Attendee, İzmir, Turkey, 2022

8th BBBB International Conference on Pharmaceutical Sciences, Attendee, İzmir, Turkey, 2019

VII. Ulusal Anorganik Kimya Kongresi, Attendee, Çorum, Turkey, 2019

7. International Drug Chemistry Conference, Attendee, Antalya, Turkey, 2019

1. Eurasia Envirochem Congress, Attendee, Antalya, Turkey, 2018

TBS International Biochemistry Congress 2018, Attendee, Muğla, Turkey, 2018

1. EBAT Eurasia Biochemical Approaches Technologies, Attendee, Antalya, Turkey, 2018

4th organic Chemistry Congress with International Participation, Attendee, Antalya, Turkey, 2018

12th International Symposium on Pharmaceutical Sciences, Attendee, Ankara, Turkey, 2018

International Eurasian Conference on Biological and Chemical Sciences, Attendee, Ankara, Turkey, 2018
Uluslararası Katılımlı 6. İlaç Kimyası Kongresi, Attendee, Antalya, Turkey, 2018
INTERNATIONAL CONGRESS ON CHEMISTRY AND MATERIALS SCIENCE, Attendee, Ankara, Turkey, 2017
29. Ulusal Kimya Kongresi, Attendee, Ankara, Turkey, 2017
68th Annual Meeting of the International Society of Chemistry, Attendee, Rhode Island, United States Of America, 2017
6th International Conference on Semiconductor Photochemistry, Attendee, Oldenburg, Germany, 2017
International Biochemistry Congress, Attendee, Erzurum, Turkey, 2017
Euroanalysis, Attendee, Stockholm, Sweden, 2017
3rd International Convention of Pharmaceuticals and Pharmacies, Attendee, İstanbul, Turkey, 2017
28. Ulusal Kimya Kongresi, Attendee, Mersin, Turkey, 2016
67th Annual Meeting of the International Society of Chemistry, Attendee, Hague, Netherlands, 2016
229th ECS Meeting, Attendee, California, United States Of America, 2016
2nd International Conference on Organic Electronic Material Technologies, Attendee, Çanakkale, Turkey, 2016
27. Ulusal Biyokimya Kongresi, Attendee, Antalya, Turkey, 2015
The European Conference on Analytical Chemistry, Attendee, Bordeaux, France, 2015
7th Black Sea Basin Conference on Analytical Chemistry, Attendee, Varna, Bulgaria, 2015
5. Ulusal Anorganik Kimya Kongresi, Attendee, Mersin, Turkey, 2015
1st International Conference on Organic Electronic Material Technologies, Attendee, Elazığ, Turkey, 2015
2. Ulusal Organik Kimya Kongresi, Attendee, Ankara, Turkey, 2014
International Conference on Porphyrins and Phthalocyanines (ICPP-8), Attendee, İstanbul, Turkey, 2014
5. Ulusal Kataliz Kongresi, Attendee, Adana, Turkey, 2014
I. Ulusal Organik Kimya Kongresi, Attendee, Sakarya, Turkey, 2013
44th World Chemistry Congress, Attendee, İstanbul, Turkey, 2013
IV. Ulusal Anorganik Kimya Kongresi, Attendee, Tokat, Turkey, 2013
4th European Chemistry Congress, Attendee, Prag, Czech Republic, 2012
IV. Ulusal Kataliz Konferansı, Attendee, Kocaeli, Turkey, 2012
III. Ulusal Anorganik Kimya Kongresi, Attendee, Çanakkale, Turkey, 2011
3rd European Chemistry Congress, Attendee, Nürnberg, Germany, 2010
XXIV. Ulusal Kimya Kongresi, Attendee, Zonguldak, Turkey, 2010
Organometalik Kimya ve Kataliz Çalıştayı, Attendee, Malatya, Turkey, 2010
XXIII. Ulusal Kimya Kongresi, Attendee, Sivas, Turkey, 2009
II. Ulusal Anorganik Kimya Kongresi, Attendee, Elazığ, Turkey, 2009
XXII. Ulusal Kimya Kongresi, Attendee, Magusa-Kıbrıs, Turkey, 2008
Sixth Aegean Analytical Chemistry Days, Attendee, Denizli, Turkey, 2008
Fifth International Conference on Porphyrins and Phthalocyanines, Attendee, Moskova, Russia, 2008
IV. Ulusal Analitik Kimya Kongresi, Attendee, Elazığ, Turkey, 2008
24th International Physics Congress, Attendee, Malatya, Turkey, 2007
XXI. Ulusal Kimya Kongresi, Attendee, Malatya, Turkey, 2007
International Conference on Organic Chemistry, Attendee, Erzurum, Turkey, 2007
1. Ulusal Anorganik Kimya Günleri, Attendee, Adana, Turkey, 2007
XX. Ulusal Kimya Kongresi, Attendee, Kayseri, Turkey, 2006
XIX. Ulusal Kimya Kongresi, Attendee, Kuşadası, Turkey, 2005

Research Areas

Chemistry, Transition Metals, Catalysis, Coordination Chemistry, Silicon Chemistry, Novel Ligands

Non Academic Experience

