

# ZEKERİYA BIYIKLIOĞLU

## PROF.

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Bölümü 61080 TRABZON

### 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, perovskit ve boyar madde uyarımlı güneş pili özellikleri, elektrokimyasal sensör, biyosensör özellikleri gibi alanlarda bilimsel faaliyetlerini sürdürmektedir. Bu alanlarda bugüne kadar SCI-Expanded indekslerine giren **50** farklı dergide toplamda **194** adet makalesi yayınlanmıştır. Bu makalelerine bugüne kadar Web of Science'a göre **3251**, Scopus'a göre **3303**, Google Scholar'a göre **4001** adet atıf yapılmıştır ve *h*-indeksi Web of Science'a göre **33** Scopus'a göre **34**, Google Scholar'a göre **38**'dir. Bunun yanısıra 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

arařtırmacı ierisinde Trkiye Cumhuriyeti niversitelerinden **195** Trk bilim insanının yer aldığı dnyadaki en iyi bilim insanları listesine giren Prof. Dr. Zekeriya BIYIKLIOĐLU, kendi bilimsel alıřma alanında (Inorganic & Nuclear Chemistry) dnyada **771**. Sırada yer alma bařarını gstermiřtir.

Ayrıca yukarıda bahsi geen bilimsel konularla ilgili;

- TBİTAK-1001 programı kapsamında 3 projede yrtc ve 1 projede arařtırmacı olarak,
- TBİTAK-2515 COST programı kapsamında 1 projede arařtırmacı olarak,
- TBİTAK-3501 programı kapsamında 1 projede arařtırmacı olarak,
- TBİTAK-1002 programı kapsamında 1 projede yrtc olarak ve 1 projede arařtırmacı olarak,
- TBİTAK-2237-A Bilimsel Eđitim Etkinliklerini Destekleme programı kapsamında 1 projede yrtc , 1 projede eđitmen olarak,
- TBİTAK 1507 KOBİ AR-GE programı kapsamında 1 projede danıřman olarak,
- TSEB-A GRUBU ACİL AR-GE programı kapsamında 1 projede arařtırmacı olarak,
- KT BAP birimi tarafından desteklenen 12 projede yrtc, 13 projede ise arařtırmacı olarak yer almıřtır.

Prof. Dr. Zekeriya BIYIKLIOĐLU sırası ile;

- 2009 yılında KT Fen Bilimleri Enstits "Lisansst Bařarı Teřvik dl"ne,
- 2014 yılında "Journal of Organometallic Chemistry" dergisinde yayınlanan makalesi 2012-2013 yılları arasında en ok atf alan makale dlne,
- 2016 yılında "KT 2015 Yılı Fen ve Mhendislik Alanı Akademik dl"ne,
- 2017 yılında Prof. Dr. Nazmi ZER Bilim dlne,
- 2017 yılında 28. Uluslararası Biyokimya Kongresi En İyi Poster Bildiri dlne,
- 2022 yılında "KT 2021 Yılı Fen Alanı Akademik dl"ne
- 2022 yılında 33. Uluslararası Biyokimya Kongresi En İyi Poster Bildiri dlne
- 2023 yılında TEKNOFEST2023-Uluslararası Buluř Fuarı Altın Madalya dlne
- 2023 yılında "KT 2022 Yılı Fen Alanı Akademik dl"ne
- 2023 yılında 1st International Congress on Solutions in Science (INSCORE), En İyi Szl Sunum (2.lık) dl'ne
- 2024 yılında "KT 2024 Yılı Lisansst Tez (Yksek Lisans) dlne
- 2024 yılında 35. Uluslararası Biyokimya Kongresi En İyi Poster Bildiri dlne layık grlmřtir.

Prof. Dr. Zekeriya BIYIKLIOĐLU evli olup Atakan, Emrah ve Mahir isimli  ocuk 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 Ftalosiyanimlerin 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

Research Assistant  
2005 - 2006

Karadeniz Technical University, Fen Fakültesi, Kimya

## Supported Projects

1. BARUT B., BIYIKLIOĞLU Z., BARUT E. N., SEYHAN G., ÖZTÜRMEYEN B. A., Project Supported by Higher Education Institutions, Piridin Grubu İçeren Silisyum Ftalosiyaniinlerin Akciğer Kanseri Hücre Hattında in vitro FDT Özelliklerinin ve Apoptotik Yolakla İlişkinin İncelenmesi, 2024 - Continues
2. YILMAZ B., USTAÖMER D., BIYIKLIOĞLU Z., DENİZ İ., TEMİZ A., KÖSE DEMİREL G., FAZLI H., AKÇAY S. B., HEKİMOĞLU G., Project Supported by Higher Education Institutions, Modifiye Kolofan ve Bitkisel Epoksi Yağ Kullanımının Odun ve MDF Levha Özelliklerine Etkisi, 2024 - Continues
3. BIYIKLIOĞLU Z., BARUT B., KELEŞ T., SEYHAN G., Project Supported by Higher Education Institutions, Morfolin Grupları İçeren Yeni Suda Çözünebilen Ftalosiyaniinlerin Sentezi ve In Vitro Biyolojik Aktivitelerinin İncelenmesi, 2024 - Continues
4. DEMİRTAŞ C., ÖZDOĞAN A., ÇAKIR O., ÖKSÜZ Ö., BIYIKLIOĞLU Z., Project Supported by Higher Education Institutions, TÜRKİYEDE BULUNAN YÖRESEL ÜRÜNLERDEN ELDE EDİLECEK BOYALAR İLE ORGANİK FOTOVOLTAİK PİL TASARIMI, 2024 - Continues
5. 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 Ftalosiyaniinlerin Sentezi DNA Etkileşimleri ve Akciğer Kolorektal Kansere Hücre Hatlarına Karşı in vitro Sitotoksik ve Fotodinamik Terapi Etkilerinin İncelenmesi, 2023 - Continues
6. 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
7. BIYIKLIOĞLU Z., ÖZEL A., TUBITAK Project, Agregasyon Göstermeyen, Suda Çözünebilen Aksiyal Disüstitüe Yeni Silisyum Ftalosiyaniin ve Naftalosiyaniinlerin Sentezi, DNA Bağlanma, DNA Kesim, Topoizomeraz İnhibitör Aktivitelerinin ve Bazı İnsan Kansere Hücrelerine Karşı Sitotoksitelerinin İncelenmesi, 2017 - Continues
8. Biyıklioğlu Z., Baş H., Ünlüer Birinci D., Kadioğlu A., Makbul S., TUBITAK Project, Suda Çözünürlüğü Yüksek Metalli Ftalosiyaniinlerin Sentezi, Karakterizasyonu ile Bitkilerde Büyüme Ve Oksidatif Stres Direncine Etkilerinin Araştırılması, 2024 - 2026
9. Barut B., Biyıklioğlu Z., Yalçın C. Ö., Barut E. N., Seyhan G., Akkaya D., Altun Ali Y., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Endometrial kansere tedavisi için yeni FDT ajanların geliştirilmesi ve in vitro etkinliklerinin incelenmesi, 2024 - 2025
10. Biyıklioğlu Z., Bekircan O., Osmanoğulları S. C., Keleş T., Project Supported by Higher Education Institutions, Elektrokimyasal Glikoz Biyosensör Uygulamaları İçin Yeni Aksiyal Disüstitüe Silisyum Ftalosiyaniinler, 2023 - 2025
11. 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 Ftalosiyaniin Bileşiklerinin Kolorektal Kansere Hücre Hattına Karşı Fotodinamik Terapi Etkilerinin ve Wnt Yolağı ile İlişkinin Araştırılması, 2022 - 2024
12. BIYIKLIOĞLU Z., KELEŞ T., ŞAHİN H., BAŞ H., Project Supported by Higher Education Institutions, Agregasyon Göstermeyen Yeni Silisyum Ftalosiyaniinlerin Kuarternize Türevlerinin Sentezi ve Asetilkolinesteraz Enzim İnhibisyonlarının İncelenmesi, 2020 - 2022
13. DİLBER G., BIYIKLIOĞLU Z., NAS A., Project Supported by Higher Education Institutions, Nonperiferal ve Periferal Pozisyonda Piperidin Grubu İçeren Yeni Ftalosiyaniin Bileşiklerinin Sentezi ve Elektrokimyasal Özelliklerinin İncelenmesi, 2019 - 2022
14. 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
15. BIYIKLIOĞLU Z., BARUT B., ÖZEL A., BAŞ H., KELEŞ T., Project Supported by Higher Education Institutions, ULUSLARARASI - SUDA ÇÖZÜNEBİLEN AGREGASYON GÖSTERMEYEN AKCİĞERKARACİĞER MEME VE MELANOMA KANSER TÜRLERİNE KARŞI IN VITROANTİKANSER ETKİLİ YENİ BİR SİLİSYUM FTALOSİYANİN BİLEŞİĞİ, 2019 - 2020
16. 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 Çözünebilen BODIPY Bileşiklerinin Sentezi Fotokimyasal Özelliklerinin ve in vitro Hüresel Etki Mekanizmalarının İncelenmesi, 2019 - 2020

17. BIYIKLIOĞLU Z., KELEŞ T., ÖZEL A., BARUT B., Project Supported by Higher Education Institutions, SUDA ÇÖZÜNEBİLEN AGREGASYON GÖSTERMEYEN AKCİĞER KARACİĞER MEME VE MELANOMA KANSER TÜRLERİNE KARŞI IN VITRO ANTİKANSER ETKİLİ YENİ BİR SİLİSYUM FTALOSİYANİN BİLEŞİĞİ, 2018 - 2020
18. BIYIKLIOĞLU Z., BAŞ H., ÖZEL A., BARUT B., Project Supported by Higher Education Institutions, DNA İLE ETKİLEŞEBİLEN TOPOİZOMERAZ İNHİBİSYONU GÖSTEREN VE ANTİKANSER ETKİLİ SUDA ÇÖZÜNEBİLEN AGREGASYON GÖSTERMEYEN YENİ BİR SİLİSYUM FTALOSİYANİN BİLEŞİĞİ VE SENTEZ YÖNTEMİ, 2018 - 2020
19. 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
20. 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
21. NAS A., DİLBER G., BIYIKLIOĞLU Z., Project Supported by Higher Education Institutions, Klorokinolin Sübstütü Grupları İçeren Redoks Aktif ve İnaktif Merkezli Ftalosiyanınların Elektrokimyasal Özelliklerinin İncelenmesi, 2018 - 2019
22. Bıyıklıoğlu Z., Arslan T., Şentürk M., TUBITAK Project, Klik Reaksiyonuyla Yeni 1,2,3-triazol-Sübstütü Metalsiz, Metalli Ftalosiyanınların ve Kuaternize Türevlerinin Sentezi ve Asetilkolinesteraz Enzimi Üzerine Aktivitelerinin İncelenmesi, 2017 - 2019
23. BIYIKLIOĞLU Z., BARUT B., Project Supported by Higher Education Institutions, Agregasyon Göstermeyen Silisyum Ftalosiyanınların Sentezi ve Kolinesteraz Enzim İnhibisyonlarının İncelenmesi, 2017 - 2018
24. BIYIKLIOĞLU Z., Project Supported by Higher Education Institutions, Suda Çözünebilen Yeni Metallifthalosiyanınların Sentezi ve DNA Bağlanma DNA Kesim Özelliklerinin İncelenmesi, 2016 - 2017
25. 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
26. Bıyıklıoğlu Z., Koca A., TUBITAK Project, Metallifthalosiyanın Temelli İletken Redoks Aktif Polimerlerin Geliştirilmesi ve Elektrokimyasal Pestisit Sensörü Olarak Kullanımları, 2015 - 2017
27. Acar İ., Bıyıklıoğlu Z., TUBITAK Project, Periferal Tetra Sübstütü Fonksiyonel Gruplar İçeren Metalsiz, Metalli Ftalosiyanınların Sentezi ve Elektrokimyasal Özelliklerinin İncelenmesi, 2015 - 2016
28. Bıyıklıoğlu Z., TUBITAK Project, Aksiyal Sübstütü Yeni Silisyum Ftalosiyanınların Sentezi Karakterizasyonu ve Elektrokimyasal Özelliklerinin İncelenmesi, 2014 - 2015
29. BIYIKLIOĞLU Z., Project Supported by Higher Education Institutions, Suda Çözünebilen Yeni Metalsiz ve Metalli Ftalosiyanınların Sentezi, Karakterizasyonu, Elektrokimyasal ve Spektroelektrokimyasal Özelliklerinin İncelenmesi, 2013 - 2015
30. BIYIKLIOĞLU Z., Project Supported by Higher Education Institutions, Periferal ve Non-Periferal Tetra Sübstütü Ftalosiyanınların Sentezi, Karakterizasyonu ve Elektrokimyasal Özelliklerinin İncelenmesi, 2012 - 2015
31. BIYIKLIOĞLU Z., KANTEKİN H., DURMUŞ M., TUBITAK Project, SUDA ÇÖZÜNEBİLEN YENİ ÇİNKO FTALOSİYANİNLERİN SENTEZİ, KARAKTERİZASYONU VE FOTODİNAMİK TERAPİ ÖZELLİKLERİNİN İNCELENMESİ, 2012 - 2014
32. BIYIKLIOĞLU Z., Project Supported by Higher Education Institutions, Fotodinamik Terapi Amaçlı Suda Çözünen Ftalosiyanınların Sentezi ve Karakterizasyonu, 2011 - 2013
33. Kantekin H., Bıyıklıoğlu Z., TUBITAK Project, Karışık Donörlü Makrosiklik ve Makrobisiklik Sübstütü Gruplar İçeren Ftalosiyanın, Porfirazınların Sentezi, Karakterizasyonu Elektrokimyasal ve Biyolojik Aktivite Özelliklerinin İncelenmesi, 2007 - 2009

## Awards

1. KTÜ 2024 Yılı Lisansüstü Tez (Yüksek Lisans) Ödülü, Karadeniz Teknik Üniversitesi, May 2024
2. KTÜ 2022 Yılı Fen Alanı Akademik Ödülü, Karadeniz Teknik Üniversitesi, May 2023
3. Bıyıklıoğlu Z., Teknofest2023-Uluslararası Buluş Fuarı Altın Madalya Ödülü, Teknofest, April 2023

4. Barut B., Altun Y., Akkaya D., Barut E. N., Baş H., Yalçın C. Ö., Bıyıklıoğlu Z., Uluslararası Biyokimya Kongresi 2022 // 33. Ulusal Biyokimya Kongresi En İyi Poster Ödülü, Uluslararası Biyokimya Kongresi 2022 // 33. Ulusal Biyokimya Kongresi, October 2022
5. BARUT B., BIYIKLIOĞLU Z., Prof. Dr. Nazmi ÖZER Bilim Ödülü (3.lük), Türk Biyokimya Derneği, October 2018
6. BIYIKLIOĞLU Z., BARUT B., ÖZEL A., Uluslararası Biyokimya Kongresi En İyi Poster Bildiri Ödülü, Uluslararası Biyokimya Kongresi 2017, September 2017
7. BARUT B., ÖZEL A., BIYIKLIOĞLU Z., Prof.Dr. Nazmi ÖZER Bilim Ödülü (2.lik), Türk Biyokimya Derneği, September 2017
8. BIYIKLIOĞLU Z., 2015 Yılı Fen ve Mühendislik Alanı Akademik Ödülü, Karadeniz Teknik Üniversitesi, May 2016
9. ACAR İ., BIYIKLIOĞLU Z., 2012-2013 Yılı en çok atıf alan makale ödülü, Journal of Organometallic Chemistry, October 2014
10. 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. **Non-peripheral octasubstituted zinc(II) phthalocyanines bearing pyridinepropoxy substituents - Antibacterial, anticancer photodynamic and sonodynamic activity**  
Wysocki M., Ziental D., BIYIKLIOĞLU Z., Jozkowiak M., Bas H., Długaszewska J., Piotrowska-Kempisty H., Guezal E., Sobotta L.  
JOURNAL OF INORGANIC BIOCHEMISTRY, vol.262, 2025 (SCI-Expanded)
2. **Dendritic, Water-Soluble, and Nonaggregated Axially Substituted Silicon Phthalocyanine as Potential Endometrial Anticancer Agent**  
Keleş T., Seyhan G., Bıyıklıoğlu Z., Kolci K., Reis R., Barut B.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.38, no.12, 2024 (SCI-Expanded)
3. **Synthesis and comparison of the performance of two different water-soluble phthalocyanine based electrochemical biosensor**  
Kocak M., OSMANOĞULLARI S. C., Soyler D., ÖZTÜRMEK B. A., BEKİRCAN O., BIYIKLIOĞLU Z., Soylemez S.  
BIOELECTROCHEMISTRY, vol.160, 2024 (SCI-Expanded)
4. **Preparation and characterization of axially substituted silicon phthalocyanine-modified nano TiO<sub>2</sub> thin films**  
Fazlı H., Akkol Ç., KESMEZ Ö., SAKA E. T., BIYIKLIOĞLU Z.  
Journal of Organometallic Chemistry, vol.1022, 2024 (SCI-Expanded)
5. **Revealing the Impact of Aging on Perovskite Solar Cells Employing Nickel Phthalocyanine-Based Hole Transporting Material**  
Ans M., BIYIKLIOĞLU Z., Mahapatra A., Chavan R. D., Kruszynska J., Unal M., Fazli H., Nikiforow K., Yadav P., AKIN S., et al.  
ADVANCED SCIENCE, vol.11, no.41, 2024 (SCI-Expanded)
6. **Synthesis and cholinesterases inhibitory effects of water soluble zinc(II) and silicon(IV) phthalocyanines bearing ({8-[3-(dimethylamino)phenoxy]octyl}oxy) groups**  
Usta B., SEYHAN G., AKKAYA D., BARUT B., BIYIKLIOĞLU Z., ÖZEL A.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.38, no.11, 2024 (SCI-Expanded)
7. **The synthesis and therapeutic effect of silicon(IV) phthalocyanines for colorectal cancer cells in photodynamic therapy by altering Wnt/13-catenin and apoptotic signaling**  
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## 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

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Bıyıklioğlu 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

Bıyıklioğlu 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

Bıyıklioğlu Z., Barut B., Baş H., Özel A., DNA ile etkileşebilen, topoizomeraz inhibisyonu 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: 322

Citation (WoS): 3251

Citation (Scopus): 3303

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

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

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

TBS International Biochemistry Congress 2018, Attendee, Muğla, 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

68th Annual Meeting of the International Society of Chemistry, Attendee, Rhode Island, United States Of America, 2017

International Biochemistry Congress, Attendee, Erzurum, Turkey, 2017

29. Ulusal Kimya Kongresi, Attendee, Ankara, Turkey, 2017

6th International Conference on Semiconductor Photochemistry, Attendee, Oldenburg, Germany, 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  
Sixth Aegean Analytical Chemistry Days, Attendee, Denizli, Turkey, 2008
- XXII. Ulusal Kimya Kongresi, Attendee, Magusa-Kıbrıs, Turkey, 2008  
Fifth International Conference on Porphyrins and Phthalocyanines, Attendee, Moskova, Russia, 2008
- IV. Ulusal Analitik Kimya Kongresi, Attendee, Elazığ, Turkey, 2008
- XXI. Ulusal Kimya Kongresi, Attendee, Malatya, Turkey, 2007  
24th International Physics Congress, 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

Karadeniz Teknik Üniversitesi