

# Prof. ZEKERİYA BIYIKLIOĞLU

## Personal Information

**Birthyear:** 1980

**Place of birth:** TRABZON - AKÇAABAT

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**Address:** Karadeniz Teknik Üniversitesi Fen Fakültesi Kimya Bölümü 61080  
TRABZON



## 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 bölüm birincisi olarak 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 Üniveristesi'nde bulundu. 2006-2009 Yılları arasında Giresun Üniveristesi'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 aynı bölümde 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 **42** farklı dergide toplamda **161** adet makalesi yayınlanmıştır. Bu makalelerine bugüne kadar Web of Science'a göre **2000**'in üzerinde atıf yapılmıştır ve Web of Science'a göre *h*-indeksi **27** dir. Bunun yanısıra ulusal ve uluslararası kongrelerde toplamda **125** adet bildirisi bulunmaktadır. Bugüne kadar 4 yüksek lisans tezi ve 1 doktora tezi yönetmiş olup halen 1 doktora öğrencisine danışmanlık yapmaktadır. Ayrıca yukarıda bahsi geçen bilimsel konularla ilgili;

- TÜBİTAK-1001 programı kapsamında 2 projede yürütücü ve 1 projede araştırmacı olarak,
- TÜBİTAK-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,
- KTÜ BAP birimi tarafından desteklenen 12 projede yürütücü, 12 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 yılı Prof. Dr. Nazmi ÖZER Bilim Ödülüne,
- 2017 yılı Uluslararası Biyokimya Kongresi En İyi Poster Bildiri Ödülüne layık görülmüştür.

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

## Education Information

2005 - 2009	Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya, Turkey
2002 - 2005	Post Graduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya, Turkey
1998 - 2002	Under Graduate, Karadeniz Technical University, Fen Edebiyat Fakültesi, Kimya, Turkey

## Foreign Languages

English, B2 Upper Intermediate

## Certificates, Courses and Trainings

2018	Dergipark ULAKBİM Dergi Sistemleri Eğitimi, Education Management and Planning, TÜBİTAK ULAKBİM
2015	Editör ve Yazar 6. Eğitim semineri, Education Management and Planning, TÜBİTAK ULAKBİM

## Dissertations

2009	Makrosiklik Grup İhtiva Eden Yeni Çözünür Ftalosiyenin Sentezi, Karakterizasyonu ve Elektrokimyasal Özelliklerinin İncelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya, Doctorate
2005	18 Üyeli Makrosiklik Grup Taşıyan Yeni Dioksim Sentezi Ve Kompleks Oluşumunun İncelenmesi, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya, Post Graduate

## Research Areas

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

## Academic Titles / Tasks

2018 - Continues	Professor, Karadeniz Technical University, Fen Fakültesi, Kimya Bölümü
2012 - 2018	Associate Professor, Karadeniz Technical University, Fen Fakültesi, Kimya
2009 - 2011	Assistant Professor, Karadeniz Technical University, Maçka Meslek Yüksekokulu, Laboratuvar
2009 - 2009	Lecturer, Karadeniz Technical University, Maçka Meslek Yüksekokulu, Laboratuvar Teknolojisi
2006 - 2009	Research Assistant, Giresun University, Fen Edebiyat Fakültesi, Kimya
2005 - 2006	Research Assistant, Karadeniz Technical University, Giresun Fen Edebiyat Fakültesi, Kimya

## Professional Experience

2019 - Continues	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

2019	BIYIKLIOĞLU Z., Post Graduate, A.Sofuoğlu(Student), Periferal ve Non-Periferal Pozisyonlarda Pirool Grupları İçeren Kobalt, Mangan Ftalosiyanimler ve Elektrokimyasal Özellikleri
2017	BIYIKLIOĞLU Z., Post Graduate, T.Keleş(Student), Redoks Aktif Kobalt, Titanyum, Mangan Metalli Ftalosiyanimlerin Sentezi Ve Elektropolimerizasyon Özellikleri
2016	BIYIKLIOĞLU Z., Post Graduate, H.BAŞ(Student), Aksiyal Süstitüe Yeni Silisyum Ftalosiyanimlerin Sentezi, Karakterizasyonu ve Elektrokimyasal Özelliklerinin İncelenmesi
2015	BIYIKLIOĞLU Z., Doctorate, D.ÇAKIR(Student), Suda Çözünebilen Yeni Çinko Ftalosiyanimlerin Sentezi, Karakterizasyonu ve Fotodinamik Terapi Özelliklerinin İncelenmesi
2014	BIYIKLIOĞLU Z., Post Graduate, İ.ÖMEROĞLU(Student), Periferal Tetra Süstitüe Metalsiz ve Metalli Ftalosiyanimlerin Sentezi, Karakterizasyonu ve Elektrokimyasal Özelliklerinin İncelenmesi

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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 (Journal Indexed in SCI Expanded)
- II. **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, 2021 (Journal Indexed in SCI Expanded)
- III. **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 (Journal Indexed in SCI Expanded)
- IV. **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 (Journal Indexed in SCI)
- V. **Peripheral or nonperipheral tetra-[4-(9H-carbazol-9-yl)phenoxy] substituted cobalt(II), manganese(III) phthalocyanines: Synthesis, acetylcholinesterase, butyrylcholinesterase, and  $\alpha$ -glucosidase inhibitory effects and anticancer activities**  
Barut B., Keles T., BIYIKLIOĞLU Z., YALÇIN C. Ö.  
Applied Organometallic Chemistry, vol.35, no.1, 2021 (Journal Indexed in SCI Expanded)
- VI. **Synthesis, Characterization, and Photocatalytic Evaluation of Manganese (III) Phthalocyanine Sensitized ZnWO<sub>4</sub> (ZnWO<sub>4</sub>MnPc) 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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI Expanded)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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., Biyıklıoğlu Z., Yarasir M. N.

Journal of Molecular Structure, vol.1214, 2020 (Journal Indexed in SCI)

- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI Expanded)
- XIV. **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 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI Expanded)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI)
- XXII. **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., Yikliglu Z., Senturk M.  
BIOORGANIC CHEMISTRY, vol.90, 2019 (Journal Indexed in SCI)
- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **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., GULTEKIN E., BEKİRCAN O.  
INORGANICA CHIMICA ACTA, vol.487, pp.201-207, 2019 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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 (Journal Indexed in SCI)
- XXVIII. **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 (Journal Indexed in SCI)
- XXIX. **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 (Journal Indexed in SCI)
- XXX. **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 (Journal Indexed in SCI)
- XXXI. **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 (Journal Indexed in SCI)
- XXXII. **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 (Journal Indexed in SCI)
- XXXIII. **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 (Journal Indexed in SCI)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **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 (Journal Indexed in SCI)
- XXXVI. **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 (Journal Indexed in SCI)
- XXXVII. **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 (Journal Indexed in SCI)
- XXXVIII. **Synthesis and electropolymerization properties of [(4-{3-[3-(dimethylamino)phenoxy]propoxylphenyl}methoxy)] and [(4-{3-[3-(diethylamino)phenoxy]propoxy}phenyl)metoxy] substituted silicon naphthalocyanines**  
BIYIKLIOĞLU Z., SOFUOĞLU A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1148, pp.15-21, 2017 (Journal Indexed in SCI)
- XXXIX. **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 (Journal Indexed in SCI)
- XL. **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 (Journal Indexed in SCI)
- XLI. **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., FANDAKLI S., Sarkı G., YALAZAN H., KANTEKİN H.  
INORGANICA CHIMICA ACTA, vol.466, pp.86-92, 2017 (Journal Indexed in SCI)
- XLII. **Synthesis and electrochemical characterization of BODIPY dyes bearing polymerizable substituents**  
BIYIKLIOĞLU Z., KELES T.  
INORGANICA CHIMICA ACTA, vol.466, pp.130-138, 2017 (Journal Indexed in SCI)
- XLIII. **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 (Journal Indexed in SCI)
- XLIV. **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 (Journal Indexed in SCI)
- XLV. **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 (Journal Indexed in SCI)

- XLVI. **The synthesis and electrochemical characterization of new metallophthalocyanines containing 4-aminoantipyrine moieties on peripherally positions**  
ERTEM B., SARKI G., YALAZAN H., BIYIKLIOĞLU Z., KANTEKİN H.  
INORGANICA CHIMICA ACTA, vol.462, pp.123-129, 2017 (Journal Indexed in SCI)
- XLVII. **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 (Journal Indexed in SCI)
- XLVIII. **K X-ray fluorescence parameters of peripherally and non-peripherally tetra-substituted zinc (II) phthalocyanines**  
CENGİZ E., DOĞAN M., BIYIKLIOĞLU Z., ÇAKIR D., TIRAŞOĞLU E., APAYDIN G.  
CANADIAN JOURNAL OF PHYSICS, vol.95, no.2, pp.125-129, 2017 (Journal Indexed in SCI)
- XLIX. **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 (Journal Indexed in SCI)
- L. **Peripherally tetra-{2-(2,3,5,6-tetrafluorophenoxy)ethoxy} substituted cobalt(II), iron(II) metallophthalocyanines: Synthesis and their electrochemical, catalytic activity studies**  
KAMILOĞLU A. A., ACAR İ., BIYIKLIOĞLU Z., SAKA E. T.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.828, pp.59-67, 2017 (Journal Indexed in SCI)
- LI. **Fluoro functional groups substituted cobalt(II), iron(II) phthalocyanines and their catalytic properties on benzyl alcohol oxidation**  
AKTAŞ A., ACAR İ., SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.86, pp.183-190, 2016 (Journal Indexed in SCI)
- LII. **Design, Synthesis, Characterization and Electrochemical Properties of BODIPY Dyes Containing Mono, Bis-2-Naphthyloxyhexyloxy and 4-(Benzyloxy)Phenoxyhexyloxy Groups**  
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## Supported Projects

- 2020 - Continues      Agregasyon Göstermeyen Yeni Silisyum Ftalosiyanınların Kuaternize Türevlerinin Sentezi ve Asetilkolinesteraz Enzim İnhibisyonlarının İncelenmesi, Project Supported by Higher Education Institutions
- 2019 - Continues      Nonperiferal ve Periferal Pozisyonda Piperidin Grubu İçeren Yeni Ftalosiyanın Bileşiklerinin Sentezi ve Elektrokimyasal Özelliklerinin İncelenmesi, Project Supported by Higher Education Institutions



2017 - Continues	Agregasyon Göstermeyen, Suda Çözünebilen Aksiyal Disübstitüe Yeni Silisyum Ftalosiyenin ve Naftalosiyenin Sentezi, DNA Bağlanma, DNA Kesim, Topoizomeraz İnhibitör Aktivitelerinin ve Bazı İnsan Kanser Hücrelerine Karşı Sitotoksitelerinin İncelenmesi, TUBITAK Project
2012 - Continues	SUDA ÇÖZÜNEBİLEN YENİ ÇİNKO FTALOSİYANİNLERİN SENTEZİ, KARAKTERİZASYONU VE FOTODİNAMİK TERAPİ ÖZELLİKLERİNİN İNCELENMESİ, TUBITAK Project
2019 - 2020	ALZHEIMER HASTALIĞININ TEDAVİSİNDE KULLANILACAK SUDA ÇÖZÜNÜR YENİ BİR KOBALT II FTALOSİYANIN BİLEŞİĞİ, Project Supported by Higher Education Institutions
2019 - 2020	ULUSLARARASI - SUDA ÇÖZÜNEBİLEN AGREGASYON GÖSTERMEYEN AKCİĞERKARACİĞER MEME VE MELANOMA KANSER TÜRLERİNE KARŞI IN VITRO ANTİKANSER ETKİLİ YENİ BİR SİLİSYUM FTALOSİYANIN BİLEŞİĞİ, Project Supported by Higher Education Institutions
2019 - 2020	Suda Çözünebilen BODIPY Bileşiklerinin Sentezi Fotokimyasal Özelliklerinin ve in vitro Hücresel Etki Mekanizmalarının İncelenmesi, Project Supported by Higher Education Institutions
2018 - 2020	SUDA ÇÖZÜNEBİLEN AGREGASYON GÖSTERMEYEN AKCİĞER KARACİĞER MEME VE MELANOMA KANSER TÜRLERİNE KARŞI IN VITRO ANTİKANSER ETKİLİ YENİ BİR SİLİSYUM FTALOSİYANIN BİLEŞİĞİ, Project Supported by Higher Education Institutions
2018 - 2020	DNA İLE ETKİLEŞEBİLEN TOPOİZOMERAZ İNHİBİSYONU GÖSTEREN VE ANTİKANSER ETKİLİ SUDA ÇÖZÜNEBİLEN AGREGASYON GÖSTERMEYEN YENİ BİR SİLİSYUM FTALOSİYANIN BİLEŞİĞİ VE SENTEZ YÖNTEMİ, Project Supported by Higher Education Institutions
2018 - 2019	Erlotinib ve Ferrosen türevli Ftalosiyenin İçeren Sığır Serum Albumini (BSA) Kaplı Lipozom Formülasyonlarının Geliştirilmesi ve Antitümoral Aktivitesinin İncelenmesi, Project Supported by Higher Education Institutions
2018 - 2019	PERİFERAL, NONPERİFERAL TETRA SÜBSTİTÜE REDOKS AKTİF KOBALT VE MANGAN METALLİ FTALOSİYANİNLER VE ELEKTROPOLİMERİZASYON ÖZELLİKLERİ, Project Supported by Higher Education Institutions
2018 - 2019	Klorokinolin Sübstitüe Grupları İçeren Redoks Aktif ve İnaktif Merkezli Ftalosiyenin Elektrokimyasal Özelliklerinin İncelenmesi, Project Supported by Higher Education Institutions
2017 - 2019	Klik Reaksiyonuyla Yeni 1,2,3-triazol-Sübstitüe Metallsiz, Metalli Ftalosiyenin ve Kuaternize Türevlerinin Sentezi ve Asetilkolinesteraz Enzimi Üzerine Aktivitelerinin İncelenmesi, TUBITAK Project
2017 - 2018	Agregasyon Göstermeyen Silisyum Ftalosiyenin Sentezi ve Kolinesteraz Enzim İnhibisyonlarının İncelenmesi, Project Supported by Higher Education Institutions
2016 - 2017	Suda Çözünebilen Yeni Metalliftalosiyenin Sentezi ve DNA Bağlanma DNA Kesim Özelliklerinin İncelenmesi, Project Supported by Higher Education Institutions
2016 - 2017	TETRA PİRAZOL SÜBSTİTÜE GRUP İÇEREN METALLİ VE METALLSİZ FTALOSİYANİNLERİN SENTEZİ KARAKTERİZASYONU VE ELEKTROKİMYASAL ÖZELLİKLERİNİN İNCELENMESİ, Project Supported by Higher Education Institutions
2015 - 2017	Metalliftalosiyenin Temelli İletken Redoks Aktif Polimerlerin Geliştirilmesi ve Elektrokimyasal Pestisit Sensörü Olarak Kullanımları, TUBITAK Project
2015 - 2016	Periferal Tetra Sübstitüe Fonksiyonel Gruplar İçeren Metallsiz, Metalli Ftalosiyenin Sentezi ve Elektrokimyasal Özelliklerinin İncelenmesi, TUBITAK Project
2014 - 2015	Aksiyal Sübstitüe Yeni Silisyum Ftalosiyenin Sentezi Karakterizasyonu ve Elektrokimyasal Özelliklerinin İncelenmesi, TUBITAK Project
2013 - 2015	Suda Çözünebilen Yeni Metallsiz ve Metalli Ftalosiyenin Sentezi, Karakterizasyonu, Elektrokimyasal ve Spektroelektrokimyasal Özelliklerinin İncelenmesi, Project Supported by Higher Education Institutions
2012 - 2015	Periferal ve Non-Periferal Tetra Sübstitüe Ftalosiyenin Sentezi, Karakterizasyonu ve Elektrokimyasal Özelliklerinin İncelenmesi, Project Supported by Higher Education Institutions
2011 - 2013	Fotodinamik Terapi Amaçlı Suda Çözünen Ftalosiyenin Sentezi ve Karakterizasyonu, Project Supported by Higher Education Institutions

2007 - 2009

Karışık Donörlü Makrosiklik ve Makrobisiklik Substitue Gruplar içeren Ftalosiyenin, Porfirazinin Sentezi, Karakterizasyonu Elektrokimyasal ve Biyolojik Aktivite Özelliklerinin İncelenmesi, TUBITAK Project

## Activities in Scientific Journals

2017 - Continues Karadeniz Chemical Science and Technology, Editor

## Memberships / Tasks in Scientific Organizations

2012 - Continues Türkiye Kimya Derneği, Member  
2012 - Continues Kataliz Derneği, Member  
2010 - Continues Society of Porphyrins and Phthalocyanines, Member

## Invited Congress and Symposium Activities

2019 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  
2018 1. Eurasia Envirochem Congress, Attendee, Antalya, Turkey  
2018 4th organic Chemistry Congress with International Participation, Attendee, Antalya, Turkey  
2018 TBS International Biochemistry Congress 2018, Attendee, Muğla, Turkey  
2018 1. EBAT Eurasia Biochemical Approaches Technologies, 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  
2017 INTERNATIONAL CONGRESS ON CHEMISTRY AND MATERIALS SCIENCE, Attendee, Ankara, Turkey  
2017 International Biochemistry Congress, Attendee, Erzurum, 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 29. Ulusal Kimya Kongresi, Attendee, Ankara, Turkey  
2017 Euroanalysis, Attendee, Stockholm, Sweden  
2017 3rd International Convention of Pharmaceuticals and Pharmacies, Attendee, İstanbul, Turkey  
2016 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  
2015 27. Ulusal Biyokimya Kongresi, Attendee, Antalya, Turkey  
2015 7th Black Sea Basin Conference on Analytical Chemistry, Attendee, Varna, Bulgaria  
2015 The European Conference on Analytical Chemistry, Attendee, Bordeaux, France  
2015 5. Ulusal Anorganik Kimya Kongresi, Attendee, Mersin, Turkey  
2015 1st International Conference on Organic Electronic Material Technologies, Attendee, Elazığ, Turkey  
2014 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
2013	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
2012	4th European Chemistry Congress, Attendee, Prag, Czech Republic
2012	IV. Ulusal Kataliz Konferansı, Attendee, Kocaeli, Turkey
2011	III. Ulusal Anorganik Kimya Kongresi, Attendee, Çanakkale, Turkey
2010	3rd European Chemistry Congress, Attendee, Nürnberg, Germany
2010	XXIV. Ulusal Kimya Kongresi, Attendee, Zonguldak, Turkey
2010	Organometalik Kimya ve Kataliz Çalıştayı, Attendee, Malatya, Turkey
2009	XXIII. Ulusal Kimya Kongresi, Attendee, Sivas, Turkey
2009	II. Ulusal Anorganik Kimya Kongresi, Attendee, Elazığ, Turkey
2008	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
2007	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
2006	XX. Ulusal Kimya Kongresi, Attendee, Kayseri, Turkey
2005	XIX. Ulusal Kimya Kongresi, Attendee, Kuşadası, Turkey

## Citations

- I. Total Citations (WOS): 2161
- II. h-index (WOS): 27

## Scholarships

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

October 2018	Prof. Dr. Nazmi ÖZER Bilim Ödülü (3.lük), Türk Biyokimya Derneği
September 2017	Uluslararası Biyokimya Kongresi En İyi Poster Bildiri Ödülü, Uluslararası Biyokimya Kongresi 2017
September 2017	Prof.Dr. Nazmi ÖZER Bilim Ödülü (2.lık), Türk Biyokimya Derneği
May 2016	2015 Yılı Fen ve Mühendislik Alanı Akademik Ödülü, Karadeniz Teknik Üniversitesi
October 2014	2012-2013 Yılı en çok atf alan makale ödülü, Journal of Organometallic Chemistry
May 2009	Lisansüstü Başarı Teşvik Ödülü (Birincilik), Karadeniz Teknik Üniversitesi Fen Bilimleri Enstitüsü