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### Education Information

Doctorate, Karadeniz Technical University, -, Kimya, Turkey 2010 - 2017

Undergraduate, Karadeniz Technical University, Fen Edebiyat Fakültesi, Kimya, Turkey 2005 - 2010

### Dissertations

Doctorate, SUBSTİTÜE BENZOTİYAZOL GRUBU İÇEREN YENİ FTALOSİYANİN BİLEŞİKLERİNİN SENTEZİ, FOTOFİZİKSEL VE FOTOKİMYASAL ÖZELLİKLERİNİN İNCELENMESİ, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, 2017

### Research Areas

Chemistry, Analytical Chemistry, Electromagnetic Methods, Inorganic Chemistry, Photochemistry of Inorganic Molecules, Coordination Chemistry, Organic Chemistry, Chemistry of Dyes and Pigments, Organometallics, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Fen Fakültesi, Kimya, 2021 - Continues

Assistant Professor, Karadeniz Technical University, Fen Fakültesi, Kimya, 2018 - 2021

Research Assistant, Karadeniz Technical University, -, Kimya, 2010 - 2017

### Courses

Endüstriyel Kimya Laboratuvarı-I, Undergraduate, 2019 - 2020

Temel Kimya-II, Undergraduate, 2019 - 2020

### Published journal articles indexed by SCI, SSCI, and AHCI

- Novel phthalocyanines bearing fluoro-methylquinolin substituents: Synthesis, characterization, photophysical and photochemical properties**  
DEMİRBAŞ Ü., ÖZÇİFÇİ Z., AKÇAY H. T.

Journal of Organometallic Chemistry, vol.1022, 2024 (SCI-Expanded)

- II. **Novel phthalocyanines bearing 4-(2-isopropylphenoxy) groups: Synthesis, characterization, electrochemical and in-situ spectroelectrochemical properties**  
DEMİRBAŞ Ü., Akyüz D.  
Journal of Organometallic Chemistry, vol.1017, 2024 (SCI-Expanded)
- III. **g-C<sub>3</sub>N<sub>4</sub> /polymeric metallophthalocyanine as novel electrocatalysts for oxygen evolution reaction**  
Akyüz D., DEMİRBAŞ Ü.  
International Journal of Hydrogen Energy, vol.75, pp.388-399, 2024 (SCI-Expanded)
- IV. **Metallo-phthalocyanines Containing 1,3,4-oxadiazole Substituents: Synthesis, Characterization, Electrochemical and Spectroelectrochemical Properties**  
Akyüz D., DEMİRBAŞ Ü., BEKİRCAN O.  
ChemistrySelect, vol.8, no.13, 2023 (SCI-Expanded)
- V. **Sensor performances of novel piperidine substituted cobalt(II) and copper(II) phthalocyanines for detection of dopamine, ascorbic acid and uric acid**  
Akyuz D., DEMİRBAŞ Ü.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.982, 2022 (SCI-Expanded)
- VI. **Metal or metal-free phthalocyanines containing morpholine substituents: synthesis, spectroscopic and photophysicochemical properties**  
DEMİRBAŞ Ü., PİŞKİN M., Durmus M., KANTEKİN H.  
JOURNAL OF COORDINATION CHEMISTRY, vol.75, no.9-10, pp.1243-1255, 2022 (SCI-Expanded)
- VII. **Metallo-phthalocyanines containing triazole substituents: Synthesis, spectroscopic and photophysicochemical properties**  
DEMİRBAŞ Ü., Ozturk D., AKÇAY H. T., Durmus M., MENTEŞE E., KANTEKİN H.  
JOURNAL OF COORDINATION CHEMISTRY, vol.75, pp.629-636, 2022 (SCI-Expanded)
- VIII. **Synthesis, characterization, photophysical and photochemical properties of peripherally tetra-1,2,4-triazol-3-ylthio substituted metal-free phthalocyanine and its zinc(II) and lead(II) derivatives**  
DEMİRBAŞ Ü., Yanik H., AKÇAY H. T., Durmus M., BEKİRCAN O., KANTEKİN H.  
JOURNAL OF COORDINATION CHEMISTRY, vol.75, no.3-4, pp.448-456, 2022 (SCI-Expanded)
- IX. **Dual-purpose both peripheral and non-peripheral triazole substituted ZnII, MgII and PbII phthalocyanines: Synthesis, characterization, photophysicochemical and acetylcholinesterase inhibitory properties**  
KANTEKİN H., Yalazan H., BARUT B., GÜNGÖR Ö., Ünlüer D., DEMİRBAŞ Ü., ÖZEL A., Durmuş M.  
Polyhedron, vol.208, 2021 (SCI-Expanded)
- X. **Synthesis, electrochemical and in-situ spectroelectrochemical properties of 1,2,4 triazole containing metallo-phthalocyanines**  
Akyuz D., DEMİRBAŞ Ü., KOCA A., AKÇAY H. T., MENTEŞE E., KANTEKİN H.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.99, pp.99-108, 2021 (SCI-Expanded)
- XI. **Synthesis, characterization, photophysical and photochemical properties of peripherally tetra benzodioxane substituted metal-free phthalocyanine and its zinc(II) and magnesium(II) derivatives**  
DEMİRBAŞ Ü., Omeroglu I., AKÇAY H. T., Durmus M., KANTEKİN H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1223, 2021 (SCI-Expanded)
- XII. **The water soluble Zn(II) and Mg(II) phthalocyanines: Synthesis, photochemical, DNA photodamage and PDT effects against A549 cells**  
Barut B., YALÇIN C. Ö., DEMİRBAŞ Ü.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.405, 2021 (SCI-Expanded)
- XIII. **Photodynamic therapy effect of morpholinium containing silicon (IV) phthalocyanine on HCT-116 cells.**  
YALÇIN C. Ö., Barut B., BARUT E. N., DEMİRBAŞ Ü., DİNÇER T., ENGİN S., ÖZEL A., Sena Sezen F. S.  
Photodiagnosis and photodynamic therapy, vol.32, pp.101975, 2020 (SCI-Expanded)
- XIV. **Detection of Al(3+) and Fe(3+) Ions with Phthalocyanine-Merocyanine 540 Dye-Based Fluorescence Resonance Energy Transfer**

- Bayraktutan T., Gur B., DEMİRBAŞ Ü.  
BULLETIN OF THE KOREAN CHEMICAL SOCIETY, vol.41, no.10, pp.973-980, 2020 (SCI-Expanded)
- XV. **Electrochemistry of novel tetra peripherally and non-peripherally substituted phthalocyanines bearing morpholine groups**  
Akyuz D., Demirbas Ü., AKÇAY H. T., KOCA A., KanteKin H.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.924, 2020 (SCI-Expanded)
- XVI. **The novel Zn(II) phthalocyanines: Synthesis, characterization, photochemical, DNA interaction and cytotoxic/phototoxic properties**  
Barut B., YALÇIN C. Ö., DEMİRBAŞ Ü., AKÇAY H. T., KANTEKİN H., ÖZEL A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1218, 2020 (SCI-Expanded)
- XVII. **Synthesis, characterization and electrochemistry of 1-phenoxypropan-2-yloxy substituted phthalocyanines**  
Akyuz D., DEMİRBAŞ Ü., Akcay H. T.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.923, 2020 (SCI-Expanded)
- XVIII. **Synthesis, anti-cholinesterease, alpha-glucosidase inhibitory, antioxidant and DNA nuclease properties of non-peripheral triclosan substituted metal-free, copper(II), and nickel(II) phthalocyanines**  
Barut B., DEMİRBAŞ Ü.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.923, 2020 (SCI-Expanded)
- XIX. **Photochemical and in vitro phototoxic properties of Zn (II) phthalocyanine bearing piperidinium groups on different cell lines**  
Barut B., YALÇIN C. Ö., DEMİRBAŞ Ü., ÖZEL A.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.921, 2020 (SCI-Expanded)
- XX. **Novel peripherally tetra substituted phthalocyanines: Synthesis, characterization, photophysical and photochemical properties**  
Demirba Ü.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1211, 2020 (SCI-Expanded)
- XXI. **Electrochemistry of Novel Phthalocyanines Bearing 1,2,4 Triazole Groups**  
Akyuz D., DEMİRBAŞ Ü., Akcay H. T., Mentese E., KOCA A., KANTEKİN H.  
ELECTROANALYSIS, vol.32, no.7, pp.1433-1438, 2020 (SCI-Expanded)
- XXII. **Novel phthalocyanines bearing 1,2,4 triazole substituents: Synthesis, characterization, photophysical and photochemical properties**  
DEMİRBAŞ Ü., Ozcifci Z., Akcay H. T., Mentese E.  
POLYHEDRON, vol.181, 2020 (SCI-Expanded)
- XXIII. **Synthesis, Characterization, Photophysical and Photochemical Properties of Novel Phthalocyanines**  
DEMİRBAŞ Ü.  
CHEMISTRYSELECT, vol.5, no.15, pp.4530-4537, 2020 (SCI-Expanded)
- XXIV. **Electrochemistry, electropolymerization and electrochromism of novel phthalocyanines bearing morpholine groups**  
Akyuz D., DEMİRBAŞ Ü., KOCA A., ÇELİK F., KANTEKİN H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1206, 2020 (SCI-Expanded)
- XXV. **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)
- XXVI. **Zinc(II) and lead(II) phthalocyanines bearing thiadiazole substituents: Synthesis, characterization, photophysical and photochemical properties**  
DEMİRBAŞ Ü., PİŞKİN M., Bayrak R., Durmus M., KANTEKİN H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1197, pp.594-602, 2019 (SCI-Expanded)
- XXVII. **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)
- XXVIII. **Non-peripherally tetra substituted phthalocyanines bearing benzodioxane moieties: Synthesis, characterization and investigation of electrochemical and spectroelectrochemical properties**  
DEMİRBAŞ Ü., Akyuz D., Akcay H. T., KOCA A., KANTEKİN H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1189, pp.234-239, 2019 (SCI-Expanded)
- XXIX. **Synthesis, characterization and investigation of cholinesterase inhibitory properties of novel peripherally tetra substituted metal-free and metallo-phthalocyanines**  
DEMİRBAŞ Ü., Barut B., ÖZEL A., KANTEKİN H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1187, pp.8-13, 2019 (SCI-Expanded)
- XXX. **The novel water soluble peripherally and non-peripherally tetra piperidine substituted phthalocyanines: Synthesis, characterization, DNA cleavage properties**  
ÖZEL A., DEMİRBAŞ Ü., Barut B., KANTEKİN H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1186, pp.325-332, 2019 (SCI-Expanded)
- XXXI. **Synthesis, Characterization, and Investigation of Cholinesterase Inhibitory Properties of Novel Phthalocyanines**  
DEMİRBAŞ Ü., Barut B., Yalçin I., DEĞİRMENCİOĞLU İ., YILDIRMIŞ S., ÖZEL A.  
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.56, no.5, pp.1553-1559, 2019 (SCI-Expanded)
- XXXII. **Synthesis, characterization and DNA interaction properties of the novel peripherally tetra 4-(3-methyl-4-(3-morpholinopropyl)-5-oxo-4,5-dihydro-1H-1,2,4-triazol-1-yl) substituted water soluble Zn(II) and Cu(II) phthalocyanines**  
DEMİRBAŞ Ü., Barut B., ÖZEL A., ÇELİK F., KANTEKİN H., SANCAK K.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1177, pp.571-578, 2019 (SCI-Expanded)
- XXXIII. **Novel triazole substituted phthalocyanines showing high singlet oxygen quantum yields**  
DEMİRBAŞ Ü., Bayrak R., DİLBER G., Mentese E., Akcay H. T.  
JOURNAL OF LUMINESCENCE, vol.206, pp.199-204, 2019 (SCI-Expanded)
- XXXIV. **Synthesis, characterization, and investigation of singlet oxygen, DNA interaction, and topoisomerase I inhibition properties of novel zinc(II) phthalocyanine**  
DEMİRBAŞ Ü.  
TURKISH JOURNAL OF CHEMISTRY, vol.43, no.6, pp.1646-1661, 2019 (SCI-Expanded)
- XXXV. **Non-peripherally tetra substituted lead(II), nickel(II) and copper(II) phthalocyanines bearing [1,2,3] triazole moieties: Synthesis, characterization and investigation of electrochemical and spectroelectrochemical properties**  
DEMİRBAŞ Ü., Akyuz D., Akcay H. T., KOCA A., KANTEKİN H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1176, pp.695-702, 2019 (SCI-Expanded)
- XXXVI. **Characterization and purification of 1,2,4-triazole-containing phthalocyanines synthesized by microwave method and structure elucidation by spectroscopic techniques**  
Nas A., Demirbaş Ü., Gümrükçüoğlu N., Kantekin H.  
TURKISH JOURNAL OF CHEMISTRY, vol.43, no.1, pp.229-238, 2019 (SCI-Expanded)
- XXXVII. **Novel 1,2,4-triazole substituted metallo-phthalocyanines: Synthesis, characterization and investigation of electrochemical and spectroelectrochemical properties**  
DEMİRBAŞ Ü., Akyuz D., Akcay H. T., KOCA A., Mentese E., KANTEKİN H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1173, pp.205-212, 2018 (SCI-Expanded)
- XXXVIII. **Synthesis of some new Methoxy Bridged Benzimidazolyl-Substituted phthalocyanines as potent inhibitors of urease**  
DEMİRBAŞ Ü., Mentese E., Sokmen B. B., Bayrak R., Akcay H. T.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.873, pp.86-90, 2018 (SCI-Expanded)
- XXXIX. **Electrochemical and spectroelectrochemical study on novel non-peripherally tetra 1,2,4-triazole substituted phthalocyanines**  
DEMİRBAŞ Ü., Akyuz D., AKCAY H. T., KOCA A., BEKİRCAN O., KANTEKİN H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1155, pp.380-388, 2018 (SCI-Expanded)

- XL. **Novel water soluble morpholine substituted Zn(II) phthalocyanine: Synthesis, characterization, DNA/BSA binding, DNA photocleavage and topoisomerase I inhibition**  
Barut B., DEMIRBAS Ü., ÖZEL A., KANTEKİN H.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.105, pp.499-508, 2017 (SCI-Expanded)
- XLI. **Synthesis, characterization and investigation of electrochemical and spectroelectrochemical properties of non-peripherally tetra-5-methyl-1,3,4-thiadiazole substituted copper(II) iron(II) and oxo-titanium (IV) phthalocyanines**  
DEMIRBAS Ü., Akyuz D., AKÇAY H. T., Barut B., KOCA A., KANTEKİN H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1144, pp.112-119, 2017 (SCI-Expanded)
- XLII. **Synthesis, characterization and investigation of electrochemical and spectroelectrochemical properties of peripherally and non-peripherally tetra 2-methyl-5-benzothiazole substituted nickel(II), copper(II) and cobalt(II) phthalocyanines**  
DEMIRBAS Ü., Akyuz D., Bayrak R., Barut B., KOCA A., KANTEKİN H., DEĞİRMENCİOĞLU İ.  
SYNTHETIC METALS, vol.231, pp.112-119, 2017 (SCI-Expanded)
- XLIII. **Synthesis, characterization and investigation of electrochemical and spectroelectrochemical properties of peripherally tetra 4-phenylthiazole-2-thiol substituted metal-free, zinc(II), copper(II) and cobalt(II) phthalocyanines**  
DEMIRBAS Ü., AKÇAY H. T., KOCA A., KANTEKİN H.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1141, pp.643-649, 2017 (SCI-Expanded)
- XLIV. **Water soluble axially morpholine disubstituted silicon phthalocyanines: Synthesis, characterisation, DNA/BSA binding, DNA photocleavage properties**  
Barut B., DEMIRBAS Ü., Senocak A., ÖZEL A., KANTEKİN H.  
SYNTHETIC METALS, vol.229, pp.22-32, 2017 (SCI-Expanded)
- XLV. **Peripherally and non-peripherally tetra-benzothiazole substituted metal-free zinc (II) and lead (II) phthalocyanines: Synthesis, characterization, and investigation of photophysical and photochemical properties**  
DEMIRBAS Ü., Gol C., Barut B., Bayrak R., Durmus M., KANTEKİN H., DEĞİRMENCİOĞLU İ.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1130, pp.677-687, 2017 (SCI-Expanded)
- XLVI. **Synthesis, characterisation, photophysical and photochemical properties of free-base tetra-(5-chloro-2-(2,4-dichlorophenoxy) phenoxy)phthalocyanine and respective zinc(II) and lead(II) complexes**  
DEMIRBAS Ü., PİŞKİN M., AKÇAY H. T., Barut B., Durmus M., KANTEKİN H.  
SYNTHETIC METALS, vol.223, pp.166-171, 2017 (SCI-Expanded)
- XLVII. **Metal-free, zinc(II) and lead(II) phthalocyanines functioning with 3-(2H-benzo[d][1,2,3]triazol-2-yl)-4-hydroxyphenethyl methacrylate groups: Synthesis and investigation of photophysical and photochemical properties**  
DEMIRBAS Ü., PİŞKİN M., Barut B., Bayrak R., Durmus M., KANTEKİN H.  
SYNTHETIC METALS, vol.220, pp.276-285, 2016 (SCI-Expanded)
- XLVIII. **The determination of photophysical and photochemical parameters of novel metal-free, zinc(II) and lead(II) phthalocyanines bearing 1,2,4-triazole groups**  
DEMIRBAS Ü., PİŞKİN M., Bayrak R., UNLUER D., DUGDU E., Durmus M., KANTEKİN H.  
SYNTHETIC METALS, vol.219, pp.76-82, 2016 (SCI-Expanded)
- XLIX. **Synthesis, characterization, electrochemical and spectroelectrochemical properties of novel peripherally tetra-1,2,4-triazole substituted phthalocyanines**  
DEMIRBAS Ü., Kobak R. Z. U., AKÇAY H. T., UNLUER D., KOCA A., ÇELİK F., KANTEKİN H.  
SYNTHETIC METALS, vol.215, pp.68-76, 2016 (SCI-Expanded)
- L. **Synthesis and electrochemical characterization of tetra-(5-chloro-2-(2,4-dichlorophenoxy)phenol) substituted Ni(II), Fe(II) and Cu(II) metallophthalocyanines**  
DEMIRBAS Ü., Kobak R. Z. U., Barut B., Bayrak R., KOCA A., KANTEKİN H.  
SYNTHETIC METALS, vol.215, pp.7-13, 2016 (SCI-Expanded)
- LI. **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)

- LII. **The electrochemical and spectroelectrochemical properties of metal free and metallophthalocyanines containing triazole/piperazine units**  
DEMIRBAS Ü., Akyuz D., MERMER A., AKCAY H. T., DEMİRBAŞ N., KOCA A., KANTEKİN H.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.153, pp.478-487, 2016 (SCI-Expanded)
- LIII. **Electrochemical and spectroelectrochemical properties of thiadiazole substituted metallo-phthalocyanines**  
DEMIRBAS Ü., Akyuz D., Barut B., Bayrak R., KOCA A., KANTEKİN H.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.153, pp.71-78, 2016 (SCI-Expanded)
- LIV. **Synthesis, aggregation and spectroscopic studies of novel water soluble metal free, zinc, copper and magnesium phthalocyanines and investigation of their anti-bacterial properties**  
Bayrak R., Akcay H. T., Beris F. S., ŞAHİN E., BAYRAK H., DEMİRBAŞ Ü.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.133, pp.272-280, 2014 (SCI-Expanded)
- LV. **The photophysical and photochemical properties of new unmetallated and metallated phthalocyanines bearing four 5-chloroquinolin-8-yloxy substituents on peripheral sites**  
Nas A., Demirbaş Ü., Piskin M., Durmus M., Kantekin H.  
JOURNAL OF LUMINESCENCE, vol.145, pp.635-642, 2014 (SCI-Expanded)
- LVI. **Novel triazole bearing zinc(II) and magnesium(II) metallo-phthalocyanines: Synthesis, characterization, photophysical and photochemical properties**  
AKCAY H. T., Piskin M., DEMİRBAŞ Ü., BAYRAK R., Durmus M., MENTESE E., KANTEKİN H.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.745, pp.379-386, 2013 (SCI-Expanded)
- LVII. **Experimental and computational studies on 4-[(3,5-dimethyl-1H-pyrazol-1-yl)methoxy]phthalonitrile and synthesis and spectroscopic characterization of its novel phthalocyanine magnesium(II) and tin(II) metal complexes**  
Akcay H. T., Bayrak R., ŞAHİN E., KARAOĞLU K., DEMİRBAŞ Ü.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.114, pp.531-540, 2013 (SCI-Expanded)
- LVIII. **Synthesis, electrochemical and spectroelectrochemical properties of peripherally tetra-imidazole substituted metal free and metallophthalocyanines**  
AKCAY H. T., BAYRAK R., DEMİRBAŞ Ü., KOCA A., KANTEKİN H., DEĞİRMENCİOĞLU İ.  
DYES AND PIGMENTS, vol.96, no.2, pp.483-494, 2013 (SCI-Expanded)
- LIX. **Synthesis, photophysical and photochemical properties of novel tetra substituted metal free and metallophthalocyanines bearing triazine units**  
DEMİRBAŞ Ü., BAYRAK R., Piskin M., AKCAY H. T., Durmus M., KANTEKİN H.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.724, pp.225-234, 2013 (SCI-Expanded)

#### **Articles Published in Other Journals**

- I. **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.  
Karadeniz Chemical Science and Technology, no.2, pp.22-26, 2018 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **YENİ FTALOSİYANİNLERİN FOTOFİZİKSEL VE FOTOKİMYASAL ÖZELLİKLERİNİN İNCELENMESİ**  
DEMİRBAŞ Ü.  
Balkan Zirvesi 2.Uluslararası Uygulamalı Bilimler Kongresi, 10 May 2020
- II. **Yeni Çinko(II) ve Magnezyum(II) Ftalosiyanın Bileşiklerinin Sentezi Karakterizasyonu ve Fotodinamik Terapi Potansiyellerinin İncelenmesi**  
Demirbaş Ü.  
4th International Symposium on Innovative Approaches in Engineering and Natural Sciences, Samsun, Turkey, 22 - 24 November 2019, pp.2
- III. **Synthesis and DNA Interaction Properties of Novel Peripherally Tetra Substituted Water Soluble Zn(II) and Cu(II) Phthalocyanines**  
Demirbaş Ü.  
8. International Vocational Schools Symposium, Sinop, Turkey, 11 - 13 June 2019, pp.7-8
- IV. **DNA Binding and DNA Photocleavage Studies of Photosensitive, Water-Soluble Phthalocyanine Compounds**  
FAİZ Ö., AKÇAY H. T., BAYRAK R., DEMİRBAŞ Ü.  
II INTERNATIONAL TURKIC WORLD CONFERENCE ON CHEMICAL SCIENCES AND TECHNOLOGIES, Üsküp, Macedonia, 26 - 30 September 2016
- V. **1,2,4-Triazol Sübstitüe Grup İçeren Periferel Metalsiz, Kurşun ve Çinko Ftalosiyanınların Sentezi ve Yapısal Karakterizasyonları**  
NAS A., DEMİRBAŞ Ü., GÜMRÜKÇÜOĞLU N., ERTEM B., KANTEKİN H.  
III. Ulusal Organik Kimya Kongresi, Turkey, 5 - 08 September 2016
- VI. **Kb/Ka X-ray Intensity Ratios and Fluorescence Yields of Zn Elements in the Phthalocyanine Complexes**  
DOĞAN M., CENGİZ E., DEMİRBAŞ Ü., KÖKSAL O. K., Karabulut K., APAYDIN G., KANTEKİN H., TIRAŞOĞLU E.  
International Physics Conference at Anatolian Peak, Erzurum, Turkey, 25 February - 27 March 2016, pp.33
- VII. **Titanyum(IV) Ftalosiyanın 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
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## Scientific Refereeing

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## Metrics

Publication: 70

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## Congress and Symposium Activities

4th International Symposium on Innovative Approaches in Engineering and Natural Sciences, Attendee, Samsun, Turkey, 2019

8. International Vocational Schools Symposium, Attendee, Sinop, Turkey, 2019

Uygulamalı Kromatografik Analiz Çalıştayı, Attendee, Trabzon, Turkey, 2011

## Awards

Demirbaş Ü., KTÜ 2019 Yılı Fen ve Mühendislik Alanında Genç Bilim ve Sanat İnsanı Ödülü , Karadeniz Teknik Üniversitesi, June 2020

DEMİRBAŞ Ü., Türk Biyokimya Derneği Prof. Dr. Nazmi Özer Bilim 1.lık Ödülü, Türk Biyokimya Derneği, November 2019

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