

Assoc. Prof. ÜMİT DEMİRBAŞ

Personal Information

Office Phone: [+90 462 377 2525](tel:+904623772525)

Office Phone: [+90 462 377 2599](tel:+904623772599)

Fax Phone: [+90 462 377 3196](tel:+904623773196)

Email: udemirbas@ktu.edu.tr

Web: <https://avesis.ktu.edu.tr/udemirbas>

Address: K.T.Ü. Kimya Bölümü 216 Nolu Oda

Education

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 Positions

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

Undergraduate

Endüstriyel Kimya Laboratuvarı-I, Undergraduate, 2019 - 2020

Temel Kimya-II, Undergraduate, 2019 - 2020

Journal articles indexed in SCI, SSCI, and AHCI

1. **Metallo-phthalocyanines bearing 5,7-dichloro-8-hydroxy-2-methylquinoline substituents: Synthesis, electrochemistry and spectroelectrochemistry**

DEMİRBAŞ Ü., Elmalı N., KOCA A., KANTEKİN H.

Journal of Organometallic Chemistry, vol.1031, 2025 (SCI-Expanded)

- II. **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)
- III. **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)
- IV. **g-C₃N₄ /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)
- V. **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)
- VI. **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)
- VII. **Metal or metal-free phthalocyanines containing morpholine substituents: synthesis, spectroscopic and photophysicochemical properties**
DEMİRBAŞ Ü., PIŞKİN M., Durmus M., KANTEKİN H.
JOURNAL OF COORDINATION CHEMISTRY, vol.75, no.9-10, pp.1243-1255, 2022 (SCI-Expanded)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- 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. **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)

- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **Synthesis, anti-cholinesterase, 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)
- XX. **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)
- XXI. **Novel peripherally tetra substituted phthalocyanines: Synthesis, characterization, photophysical and photochemical properties**
Demirba Ü.
JOURNAL OF MOLECULAR STRUCTURE, vol.1211, 2020 (SCI-Expanded)
- XXII. **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)
- XXIII. **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)
- XXIV. **Synthesis, Characterization, Photophysical and Photochemical Properties of Novel Phthalocyanines**
DEMİRBAŞ Ü.
CHEMISTRYSELECT, vol.5, no.15, pp.4530-4537, 2020 (SCI-Expanded)
- XXV. **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)
- XXVI. **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, 2020 (SCI-Expanded)

- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **Synthesis, Characterization, and Investigation of Cholinesterase Inhibitory Properties of Novel Phthalocyanines**
DEMİRBAŞ Ü., Barut B., Yalcin I., DEĞİRMENCİOĞLU İ., YILDIRMIŞ S., ÖZEL A.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.56, no.5, pp.1553-1559, 2019 (SCI-Expanded)
- XXXIII. **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)
- XXXIV. **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)
- 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. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)

- XL. **Electrochemical and spectroelectrochemical study on novel non-peripherally tetra 1,2,4-triazole substituted phthalocyanines**
DEMİRBAŞ Ü., Akyuz D., AKÇAY H. T., KOCA A., BEKİRCAN O., KANTEKİN H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1155, pp.380-388, 2018 (SCI-Expanded)
- XL1. **Novel water soluble morpholine substituted Zn(II) phthalocyanine: Synthesis, characterization, DNA/BSA binding, DNA photocleavage and topoisomerase I inhibition**
Barut B., DEMİRBAŞ Ü., ÖZEL A., KANTEKİN H.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.105, pp.499-508, 2017 (SCI-Expanded)
- XLII. **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**
DEMİRBAŞ Ü., Akyuz D., AKÇAY H. T., Barut B., KOCA A., KANTEKİN H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1144, pp.112-119, 2017 (SCI-Expanded)
- XLIII. **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**
DEMİRBAŞ Ü., Akyuz D., Bayrak R., Barut B., KOCA A., KANTEKİN H., DEĞİRMENCİOĞLU İ.
SYNTHETIC METALS, vol.231, pp.112-119, 2017 (SCI-Expanded)
- XLIV. **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**
DEMİRBAŞ Ü., AKÇAY H. T., KOCA A., KANTEKİN H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1141, pp.643-649, 2017 (SCI-Expanded)
- XLV. **Water soluble axially morpholine disubstituted silicon phthalocyanines: Synthesis, characterisation, DNA/BSA binding, DNA photocleavage properties**
Barut B., DEMİRBAŞ Ü., Senocak A., ÖZEL A., KANTEKİN H.
SYNTHETIC METALS, vol.229, pp.22-32, 2017 (SCI-Expanded)
- XLVI. **Peripherally and non-peripherally tetra-benzothiazole substituted metal-free zinc (II) and lead (II) phthalocyanines: Synthesis, characterization, and investigation of photophysical and photochemical properties**
DEMİRBAŞ 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)
- XLVII. **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**
DEMİRBAŞ Ü., PİŞKİN M., AKÇAY H. T., Barut B., Durmus M., KANTEKİN H.
SYNTHETIC METALS, vol.223, pp.166-171, 2017 (SCI-Expanded)
- XLVIII. **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**
DEMİRBAŞ Ü., PİŞKİN M., Barut B., Bayrak R., Durmus M., KANTEKİN H.
SYNTHETIC METALS, vol.220, pp.276-285, 2016 (SCI-Expanded)
- XLIX. **The determination of photophysical and photochemical parameters of novel metal-free, zinc(II) and lead(II) phthalocyanines bearing 1,2,4-triazole groups**
DEMİRBAŞ Ü., PİŞKİN M., Bayrak R., UNLUER D., DUGDU E., Durmus M., KANTEKİN H.
SYNTHETIC METALS, vol.219, pp.76-82, 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**
DEMİRBAŞ Ü., Kobak R. Z. U., Barut B., Bayrak R., KOCA A., KANTEKİN H.

SYNTHETIC METALS, vol.215, pp.7-13, 2016 (SCI-Expanded)

- LI. **Synthesis, characterization, electrochemical and spectroelectrochemical properties of novel peripherally tetra-1,2,4-triazole substituted phthalocyanines**
DEMIRBAS Ü., Kobak R. Z. U., AKCAY H. T., UNLUER D., KOCA A., ÇELİK F., KANTEKİN H.
SYNTHETIC METALS, vol.215, pp.68-76, 2016 (SCI-Expanded)
- LII. **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)
- 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. **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)
- LV. **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)
- LVI. **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)
- LVII. **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)
- LVIII. **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., KARAÖGLU K., DEMİRBAŞ Ü.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.114, pp.531-540, 2013 (SCI-Expanded)
- LIX. **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)
- LX. **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

1. **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)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **YENİ FTALOSİYANİNLERİN FOTOFİZİKSEL VE FOTOKİMYASAL ÖZELLİKLERİNİN İNCELENMESİ**
DEMİRBAŞ Ü.
Balkan Zirvesi 2.Uluslararası Uygulamalı Bilimler Kongresi, 10 May 2020, (Summary Text)
- 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, (Summary Text)
- 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, (Summary Text)
- 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, (Full Text)
- 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, (Summary Text)
- 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, (Summary Text)
- 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, (Full Text)
- VIII. **Selective Recognition of Copper (II) Ion by a New Phthalocyanine Compound With 2-(4,6-Diphenyl-1,3,5-Triazin-2-yl)-5-(Hexyloxy) Phenol Moiety**
Başoğlu A., DEMİRBAŞ Ü., KANTEKİN H., ALP H., OCAK M., OCAK Ü.
6th Black Sea Basin Conference on Analytical Chemistry, Trabzon, Turkey, 10 - 14 September 2013, pp.18, (Full Text)
- IX. **The photophysical and photochemical properties of new unmetallated and metallated phthalocyanines bearing four 5-chloroquinolin-8-yloxy substituents on peripheral sites**
NAS A., DEMİRBAŞ Ü., PİSKİN M., DURMUS M., KANTEKİN H.
6th Black Sea Basin Conference on Analytical Chemistry, Trabzon, Turkey, 10 - 14 September 2013, pp.262, (Full Text)

Funded Projects

KANTEKİN H., ÖZEL A., YALAZAN H., DEMİRBAŞ Ü., BARUT B., Project Supported by Higher Education Institutions, KANSER VE ALZHEİMER HASTALIĞININ TEDAVİSİNE YÖNELİK TRİZOL GRUBU İÇEREN FTALOSİYANİNLERİN SENTEZİ FOTODİNAMİK TERAPİ VE BİYOLOJİK AKTİVİTE ÖZELLİKLERİNİN İNCELENMESİ, 2020 - 2022

DEMİRBAŞ Ü., KANTEKİN H., BARUT B., AKÇAY H. T., Project Supported by Higher Education Institutions, Suda Çözünebilen Yeni ÇinkoII ve BakırII Ftalosiyanınların Sentezi Karakterizasyonu ve DNABSA Bağlanma ve DNA Fotokesim Özelliklerinin İncelenmesi, 2019 - 2020

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 Hücrel Etki Mekanizmalarının İncelenmesi, 2019 - 2020

KANTEKİN H., DEMİRBAŞ Ü., BARUT B., ÖZEL A., Project Supported by Higher Education Institutions, Periferal Çevresinde Pentilfenoksi İçeren Metalli ve Metalsiz Ftalosiyanın Bileşiklerinin Sentezi Karakterizasyonu ve AsetilkolinesterazBütirilkinesteraz Enzim İnhibisyonlarının İncelenmesi, 2017 - 2018

ÖZEL A., DEMİRBAŞ Ü., KANTEKİN H., BARUT B., Project Supported by Higher Education Institutions, Periferal ve NonPeriferal Çevrelerinde Piperidin Grupları İçeren Suda Çözünebilen Yeni ÇinkoII ve BakırII Ftalosiyanınların Sentezi Karakterizasyonu ve Fotodinamik Terapide Kullanılma Potansiyellerinin İncelenmesi, 2017 - 2018

Demirbaş Ü., Değirmencioğlu İ., TUBITAK Project, Benzotiyazol Grupları İçeren Yeni Ftalosiyanınların Sentezi, Karakterizasyonu, Fotofiziksel ve Fotokimyasal Özelliklerinin İncelenmesi, 2014 - 2015

Bıyıklıoğlu Z., Demirbaş Ü., Kanteğin H., Project Supported by Higher Education Institutions, Fotodinamik Terapi Amaçlı Suda Çözünen Ftalosiyanınların Sentezi ve Karakterizasyonu, 2010 - 2012

Peer Reviews in Scientific Publications

JOURNAL OF COORDINATION CHEMISTRY, SCI Journal, November 2022

Turkish Journal of Analytical Chemistry (Online), National Scientific Refreed Journal, November 2022

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, November 2022

DALTON TRANSACTIONS, SCI Journal, August 2022

NEW JOURNAL OF CHEMISTRY, SCI Journal, July 2022

JOURNAL OF COORDINATION CHEMISTRY, SCI Journal, June 2022

APPLIED ORGANOMETALLIC CHEMISTRY, SCI Journal, March 2022

DALTON TRANSACTIONS, SCI Journal, March 2022

JOURNAL OF COORDINATION CHEMISTRY, SCI Journal, January 2022

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, November 2021

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, November 2021

DALTON TRANSACTIONS, SCI Journal, July 2021

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, June 2021

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, January 2021

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, December 2020

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, November 2020

JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B: BIOLOGY, SCI Journal, August 2020

NEW JOURNAL OF CHEMISTRY, SCI Journal, July 2020

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, July 2020

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, May 2020

Journal of the Turkish Chemical Society, Section A: Chemistry, National Scientific Refreed Journal, May 2020

SN APPLIED SCIENCES, SCI Journal, March 2020

SN APPLIED SCIENCES, SCI Journal, March 2020

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, March 2020

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, February 2020

JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, February 2020

MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, SCI Journal, January 2020

JOURNAL OF ORGANOMETALLIC CHEMISTRY, SCI Journal, January 2020

Inorganic and Nano-Metal Chemistry, SCI Journal, November 2019
JOURNAL OF MOLECULAR STRUCTURE, SCI Journal, November 2019
SYNTHETIC METALS, SCI Journal, September 2019
SAUDI PHARMACEUTICAL JOURNAL, SCI Journal, September 2019
DALTON TRANSACTIONS, SCI Journal, August 2019
INORGANICA CHIMICA ACTA, SCI Journal, January 2019
JOURNAL OF PHYSICAL ORGANIC CHEMISTRY, SCI Journal, July 2018
HETEROCYCLIC COMMUNICATIONS, SCI Journal, May 2018
SYNTHETIC METALS, SCI Journal, April 2018

Metrics

Publication: 72
Citation (WoS): 837
Citation (Scopus): 889
H-Index (WoS): 18
H-Index (Scopus): 19

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
DEMİRBAŞ Ü., 2018 Yılı Fen ve Mühendislik Alanında Genç Bilim ve Sanat İnsanı Ödülü., Karadeniz Teknik Üniversitesi, May 2019
DEMİRBAŞ Ü., Türk Biyokimya Derneği Prof. Dr. Nazmi Özer Bilim 2.lık Ödülü, Türk Biyokimya Derneği, September 2018
DEMİRBAŞ Ü., Karadeniz Teknik Üniversitesi Fen-Edebiyat Fakültesi 1. Öğretim Programı Birinciliği, Karadeniz Teknik Üniversitesi Fen-Edebiyat Fakültesi, June 2010