

Asst. Prof. BURAK BARUT

Personal Information

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Education Information

Doctorate, Karadeniz Technical University, Sağlık Bilimleri Enstitüsü, Eczacılıkta Biyokimya, Turkey 2016 - 2020

Postgraduate, Karadeniz Technical University, Sağlık Bilimleri Enstitüsü, Eczacılık Biyokimya, Turkey 2014 - 2016

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 2013 - 2016

Undergraduate, Karadeniz Technical University, Fen Fakültesi, Kimya, Turkey 2009 - 2013

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, Good Manufacturing Practices (GMP)-Good Laboratory Practices (GLP) Requirements and Internal Audit, ETC Danışmanlık, 2019

Education Management and Planning, ISO 13485: 2016 Medical Devices Quality Management System Requirements and Internal Audit, ETC Danışmanlık, 2019

Education Management and Planning, ISO 17025:2017 General Requirements For The Competence of Testing and Calibration Laboratories, ETC Danışmanlık, 2019

Education Management and Planning, Eğitimcilerin Eğitimi Sertifika Programı, Trabzon Üniversitesi Sürekli Eğitim Uygulama ve Araştırma Merkezi, 2019

Education Management and Planning, Kooperatifçilik Geliştirme ve Uyum Eğitimi, Milli Eğitim Bakanlığı Hayat Boyu Öğrenme Genel Müdürlüğü, 2018

Health&Medicine, Kişiselleştirilmiş Kanser Tedavisinde Hücre Kültürü, Proteomik & Genomik Uygulamalar Kursu, ARGEFAR (Ege Üniversitesi İlaç Geliştirme ve Farmakokinetik Uygulama Araştırma Merkezi), 2016

Health&Medicine, DNA Komet Analiz Yöntemi Kursu, Türkiye Atom Enerjisi Kurumu, 2015

Education Management and Planning, TÜBİTAK Bilimsel Araştırma Projesi Hazırlama Eğitimi, TÜBİTAK BKTÜ-TÜBİTAK ARDEB Temsilciliği, 2015

Education Management and Planning, Testing and Calibration Laboratories for Basic Training, PersonaTR, 2012

Occupational Health and Safety, İş Sağlığı ve Güvenliği Temel Eğitimi, PersonaTR, 2012

Education Management and Planning, İstihdamı Zorunlu Personel, Kimyagerler Derneği, 2012

Education Management and Planning, TS EN ISO/IEC 17025:2005 Deney ve Kalibrasyon Laboratuvarlarının Yeterliliği için Genel Şartlar, Kimyagerler Derneği, 2012

Dissertations

Doctorate, Yeni BODİPY Bileşiklerinin Fotodinamik Terapi Amaçlı in vitro Etkinliklerinin İncelenmesi, Karadeniz Technical

University, Sağlık Bilimleri Enstitüsü, 2020

Postgraduate, Benzotriazol Grubu Taşıyan Yeni Metalli ve Metallsiz Ftalosiyannların Sentezi, Karakterizasyonu, Fotofiziksel ve Fotokimyasal Özelliklerinin İncelenmesi , Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, 2016

Postgraduate, Suda Çözünür Ti(IV) Ftalosiyannın Bileşiklerinin DNA Bağlanma, DNA Kesim, Antioksidan, Antimikrobiyal Aktivitelerinin ve Topoizomeraz I İnhibisyonunun İncelenmesi, Karadeniz Technical University, Sağlık Bilimleri Enstitüsü, Eczacılık Biyokimya, 2016

Research Areas

Health Sciences, Pharmacology and Therapeutics, Basic Pharmaceutics Sciences, Biochemistry, Biochemistry, Bioinorganic Chemistry, Enzyme Kinetics, Chemistry of Macromolecules, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık, 2021 - Continues

Research Assistant, Karadeniz Technical University, Eczacılık Fakültesi, Temel Eczacılık, 2014 - 2020

Courses

Araştırma Projesi-II, Undergraduate, 2020 - 2021

Biyokimya-I, Undergraduate, 2021 - 2022

Moleküler Biyoloji, Undergraduate, 2021 - 2022

Biyokimyada Araştırma Metotları-I, Postgraduate, 2021 - 2022

Moleküler Biyoloji, Undergraduate, 2020 - 2021

Biyokimya II Laboratuvarı, Undergraduate, 2020 - 2021

Temel Biyokimya, Postgraduate, 2021 - 2022

Araştırma Projesi, Undergraduate, 2021 - 2022

Jury Memberships

Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, March, 2021

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

- I. **Multiple biological effects of secondary metabolites of Ziziphus jujuba: isolation and mechanistic insights through in vitro and in silico studies**
Şöhretoğlu D., Bakır S. D. , Barut B., Soral M., Sarı S.
European Food Research And Technology, no.x, pp.1-9, 2022 (Journal Indexed in SCI Expanded)
- II. **Synthesis and biological evaluation of peripherally tetra-({6-[3-(dimethylamino)phenoxy]hexyl}oxy) substituted water-soluble phthalocyanines as cholinesterases inhibitors**
Bıyıkhoğlu Z., Baş H., Akkaya D., Barut B.
Applied Organometallic Chemistry, no.X, pp.1-9, 2022 (Journal Indexed in SCI Expanded)
- III. **Dual-purpose both peripheral and non-peripheral triazole substituted ZnII, MgII and PbII phthalocyanines: Synthesis, characterization, photophysicochemical and acetylcholinesterase inhibitory properties**
Kantekin H., Yalazan H., Barut B., Güngör Ö., Ünlüer D., Demirbaş Ü., Özel A., Durmuş M.

Polyhedron, no.208, pp.115416, 2021 (Journal Indexed in SCI)

- IV. **Synthesis of water-soluble BODIPY dyes and investigation of their DNA interaction properties and cytotoxicity/phototoxicity**
KELEŞ T., BARUT B., YILDIRIM S., YALÇIN C. Ö. , BIYIKLIOĞLU Z.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.35, no.11, 2021 (Journal Indexed in SCI)
- V. **Alpha-glucosidase and tyrosinase inhibitor of polyphenols isolated from *Potentilla speciosa* var. *speciosa*: In vitro and in silico perspectives**
Özgünseven A., Barut B., Soral M., Sarı S., Akaydın G., Özel A., Şöhretoğlu D.
Industrial Crops And Products, no.170, pp.113806, 2021 (Journal Indexed in SCI)
- VI. **Azole antifungal compounds could have dual cholinesterase inhibitory potential according to virtual screening, enzyme kinetics, and toxicity studies of an inhouse library**
BARUT B., SARI S., SABUNCUOĞLU S., ÖZEL A.
Journal of Molecular Structure, vol.1235, 2021 (Journal Indexed in SCI)
- VII. **Potential of nafimidone derivatives against co-morbidities of epilepsy: In vitro, in vivo, and in silico investigations**
SARI S., BARUT B., Marcinkowska M., SABUNCUOĞLU S., AVCI A., Aslan E. K. , ÖZEL A., Siwek A.
DRUG DEVELOPMENT RESEARCH, 2021 (Journal Indexed in SCI)
- VIII. **Pyridine substituted BODIPYs: Synthesis, characterization and cholinesterase, α -glucosidase inhibitory, DNA hydrolytic cleavage effects**
Barut B., Baş H., Biyiklioğlu Z.
Turkish Journal Of Chemistry, no.45, pp.1567-1575, 2021 (Journal Indexed in SCI Expanded)
- IX. **Discovery of potent α -glucosidase inhibitors through structure-based virtual screening of an in-house azole collection**
SARI S., Barut B., ÖZEL A., Sarac S.
Chemical Biology and Drug Design, vol.97, no.3, pp.701-710, 2021 (Journal Indexed in SCI Expanded)
- X. **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)
- XI. **Synthesis of water-soluble phthalocyanines containing 1-methyl-1H-imidazole-2-thiol: Investigation of DNA nuclease, alpha-glucosidase inhibitory, and photo-physicochemical properties**
Gunsel A., Kalkan F., Atmaca G. Y. , Barut B., Bilgili A. T. , Piskin H., ÖZEL A., ERDOĞMUŞ A., Yarasir M. N.
APPLIED ORGANOMETALLIC CHEMISTRY, 2021 (Journal Indexed in SCI)
- XII. **Peripheral or nonperipheral tetra-[4-(9H-carbazol-9-yl)phenoxy] substituted cobalt(II), manganese(III) phthalocyanines: Synthesis, acetylcholinesterase, butyrylcholinesterase, and α -glucosidase inhibitory effects and anticancer activities**
Barut B., Keles T., BIYIKLIOĞLU Z., YALÇIN C. Ö.
Applied Organometallic Chemistry, vol.35, no.1, 2021 (Journal Indexed in SCI Expanded)
- XIII. **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 (Journal Indexed in SCI)
- 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.
PHOTODIAGNOSIS AND PHOTODYNAMIC THERAPY, vol.32, 2020 (Journal Indexed in SCI)
- XV. **In vitro and in silico assessment of DNA interaction, topoisomerase I and II inhibition properties of chrysofenetin**
ŞÖHRETOĞLU D., Barut B., SARI S., ÖZEL A., Arroo R.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.163, pp.1053-1059, 2020 (Journal Indexed in

SCI)

- XVI. **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)
- 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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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)
- 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 (Journal Indexed in SCI)
- XXI. **Flavones as tyrosinase inhibitors: kinetic studies in vitro and in silico**
Arroo R. R. J. , SARI S., Barut B., ÖZEL A., Ruparella K. C. , ŞÖHRETOĞLU D.
PHYTOCHEMICAL ANALYSIS, vol.31, no.3, pp.314-321, 2020 (Journal Indexed in SCI)
- XXII. **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)
- XXIII. **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)
- XXIV. **DNA interaction and anticancer properties of new peripheral phthalocyanines carrying tosylated 4-morpholinoaniline units**
Yalazan H., Barut B., Ertem B., Yalçın C. Ö. , Ünver Y., Özel A., Omeroglu I., Durmus M., Kantekin H.
POLYHEDRON, vol.177, 2020 (Journal Indexed in SCI)
- XXV. **Volatile and Phenolic Components and Antioxidant, Acetylcholinesterase, Tyrosinase, α-Glucosidase Inhibitory Effects of Extracts Obtained From Campanula latifolia L. subsp. latifolia**
KORKMAZ B., Fandakli S., BARUT B., YILDIRIM S., ŞENER S. Ö. , ÖZTÜRK E., TERZİOĞLU S., YAYLI N.
Journal of Essential Oil-Bearing Plants, vol.23, no.5, pp.1118-1131, 2020 (Journal Indexed in SCI)
- XXVI. **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)
- 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 (Journal Indexed in SCI)
- XXVIII. **Tyrosinase inhibitory effects of Vinca major and its secondary metabolites: Enzyme kinetics and in silico inhibition model of the metabolites validated by pharmacophore modelling**

- SARI S., Barut B., ÖZEL A., ŞÖHRETOĞLU D.
BIOORGANIC CHEMISTRY, vol.92, 2019 (Journal Indexed in SCI)
- XXIX. **Uroprotective effect of pantoprazole against cyclophosphamide-induced cystitis in mice**
ENGİN S., BARUT E. N. , Barut B., Duman M. K. , KAYA C., KERİMOĞLU G., ÖZEL A.
SUPPORTIVE CARE IN CANCER, vol.27, no.11, pp.4273-4281, 2019 (Journal Indexed in SCI)
- XXX. **The Volatile Chemical Compositions of the Essential Oil/SPME and Enzyme Inhibitory and Radical Scavenging Activities of Solvent Extracts and the Essential oils from *Coronilla orientalis* Miller and *C. varia* L. grows in Turkey**
RENDA G., ÖZEL A., Barut B., KORKMAZ B., YAYLI N.
IRANIAN JOURNAL OF PHARMACEUTICAL RESEARCH, vol.18, no.4, pp.1831-1842, 2019 (Journal Indexed in SCI)
- XXXI. **Syntheses, structural characterization, DNA-cleavage and antioxidant features of the new tetra-substituted organo-soluble non-peripherally Co-II, Cu-II, Zn-II and Mg-II phthalocyanines**
YALAZAN H., Barut B., SARKI G., ERTEM B., ÜNVER Y., ÖZEL A., KANTEKİN H.
JOURNAL OF COORDINATION CHEMISTRY, vol.72, no.14, pp.2409-2421, 2019 (Journal Indexed in SCI)
- XXXII. **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 (Journal Indexed in SCI)
- XXXIII. **Syntheses, structural verification, DNA cleavage and antioxidant features of the new tetra-substituted organo-soluble nonperipherally CoII, CuII, ZnII and MgII phthalocyanines**
Yalazan H., BARUT B., Sarkı G., ERTEM B., ÜNVER Y., ÖZEL A., KANTEKİN H.
JOURNAL OF COORDINATION CHEMISTRY, pp.2409-2421, 2019 (Journal Indexed in SCI)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **Comparison of phenolic profiles and antioxidant activity of three *Ornithogalum* L. species**
RENDA G., ÖZEL A., Turumtay E. A. , Barut B., KORKMAZ B., ÇOL AYVAZ M., Demir A.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.44, no.3, pp.299-306, 2019 (Journal Indexed in SCI)
- XXXVI. **Tyrosinase and β -glucosidase potential of compounds isolated from *Quercus coccifera* bark: In vitro and in silico perspectives**
SARİ S., BARUT B., ÖZEL A., Kuruüzüm-Uz A., ŞÖHRETOĞLU D.
BIOORGANIC CHEMISTRY, pp.296-304, 2019 (Journal Indexed in SCI)
- XXXVII. **Tyrosinase and alpha-glucosidase inhibitory potential of compounds isolated from *Quercus coccifera* bark: In vitro and in silico perspectives**
SARI S., Barut B., ÖZEL A., Kuruuzum-Uz A., ŞÖHRETOĞLU D.
BIOORGANIC CHEMISTRY, vol.86, pp.296-304, 2019 (Journal Indexed in SCI)
- XXXVIII. **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 (Journal Indexed in SCI)
- XXXIX. **Synthesis of water soluble silicon phthacyanine, 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)
- XL. **Uroprotective effect of ambroxol in cyclophosphamide-induced cystitis in mice**
BARUT E. N. , ENGİN S., Barut B., KAYA C., KERİMOĞLU G., ÖZEL A., Kadioglu M.
INTERNATIONAL UROLOGY AND NEPHROLOGY, vol.51, no.5, pp.803-810, 2019 (Journal Indexed in SCI)
- XLI. **Synthesis, characterization and DNA interaction properties of the novel peripherally tetra 4-(3-**

methy1-4-(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 (Journal Indexed in SCI)

- XLII. **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)
- XLIII. **α -Glucosidase inhibitory effects of polyphenols from Geranium asphodeloides: Inhibition kinetics and mechanistic insights through in vitro and in silico studies**
RENDA G., SARI S., Barut B., ŞORAL M., Liptaj T., KORKMAZ B., ÖZEL A., ERİK İ., ŞÖHRETOĞLU D.
Bioorganic Chemistry, vol.81, pp.545-552, 2018 (Journal Indexed in SCI)
- XLIV. **Tyrosinase inhibition by some flavonoids: Inhibitory activity, mechanism by in vitro and in silico studies**
ŞÖHRETOĞLU D., SARI S., Barut B., ÖZEL A.
Bioorganic Chemistry, vol.81, pp.168-174, 2018 (Journal Indexed in SCI)
- XLV. **Tyrosinase inhibition by a rare neolignan: Inhibition kinetics and mechanistic insights through in vitro and in silico studies**
ŞÖHRETOĞLU D., SARI S., Barut B., ÖZEL A.
Computational Biology and Chemistry, vol.76, pp.61-66, 2018 (Journal Indexed in SCI)
- XLVI. **Discovery of potent alpha-glucosidase inhibitor flavonols: Insights into mechanism of action through inhibition kinetics and docking simulations**
ŞÖHRETOĞLU D., SARI S., Barut B., ÖZEL A.
BIOORGANIC CHEMISTRY, vol.79, pp.257-264, 2018 (Journal Indexed in SCI)
- XLVII. **Potential of Potentilla inclinata and its polyphenolic compounds in alpha-glucosidase inhibition: Kinetics and interaction mechanism merged with docking simulations**
ŞÖHRETOĞLU D., SARI S., Soral M., Barut B., ÖZEL A., Liptaj T.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.108, pp.81-87, 2018 (Journal Indexed in SCI)
- XLVIII. **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)
- XLIX. **Biological Evaluation (Antimicrobial, Antioxidant, and Enzyme Inhibitions), Total Phenolic Content and Volatile Chemical Compositions of Caucasalia macrophylla (M. Bieb.) B. Nord. (Asteraceae)**
YAYLI N., FANDAKLI S., KORKMAZ B., Barut B., RENDA G., ERİK İ.
JOURNAL OF ESSENTIAL OIL BEARING PLANTS, vol.21, no.5, pp.1359-1373, 2018 (Journal Indexed in SCI)
- L. **Synthesis, Characterization and Biological Activities of New Symmetric Bis-1,2,3-Triazoles with Click Chemistry**
ÇELİK F., ÜNVER Y., Barut B., ÖZEL A., SANCAK K.
MEDICINAL CHEMISTRY, vol.14, no.3, pp.230-241, 2018 (Journal Indexed in SCI)
- LI. **Bioassay Guided Isolation of Active Compounds from Alchemilla barbatiflora Juz**
RENDA G., ÖZEL A., Barut B., KORKMAZ B., Soral M., Kandemir U., Liptaj T.
RECORDS OF NATURAL PRODUCTS, vol.12, no.1, pp.76-85, 2018 (Journal Indexed in SCI)
- LII. **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)
- LIII. **α -Glucosidase inhibitory effect of Potentilla astracanica and some isoflavones: Inhibition kinetics and mechanistic insights through in vitro and in silico studies**
ŞÖHRETOĞLU D., SARI S., ÖZEL A., Barut B.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.105, pp.1062-1070, 2017 (Journal Indexed in SCI)

- LIV. **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 (Journal Indexed in SCI)
- LV. **Synthesis, acetylcholinesterase, butyrylcholinesterase and tyrosinase inhibition, and antioxidant studies of 2-[2-(substituted-benzyl)-4(7)-phenyl-1H-benzimidazol-1-yl]acetohydrazides and methyl 2-[2-(substituted-benzyl)-4(7)-phenyl-1H-benzimidazol-1-yl]acetates**
GÜMÜŞ M. K., DOĞAN İ. S., BARUT B., ÖZEL A., KAHVECİ B.
BULGARIAN CHEMICAL COMMUNICATIONS, no.49, pp.107-114, 2017 (Journal Indexed in SCI Expanded)
- LVI. **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., AKCAY H. T., Barut B., KOCA A., KANTEKİN H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1144, pp.112-119, 2017 (Journal Indexed in SCI)
- LVII. **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 (Journal Indexed in SCI)
- LVIII. **Antioxidant capacity, anti-acetylcholinesterase activity and inhibitory effect on lipid peroxidation in mice brain homogenate of Achillea millefolium**
BARUT E. N., Barut B., ENGİN S., YILDIRIM S., YAŞAR A., Turkis S., ÖZEL A., SEZEN F. S.
TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.42, no.4, pp.493-502, 2017 (Journal Indexed in SCI)
- LIX. **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 (Journal Indexed in SCI)
- LX. **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.
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- LXI. **Peripherally and non-peripherally tetra-benzothiazole substituted metal-free zinc (II) and lead (II) phthalocyanines: Synthesis, characterization, and investigation of photophysical and photochemical properties**
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Prof. Dr. Alaeddin Akcasu XXVII. Farmakoloji Eğitiminde Kuşaklararası Bilimsel Etkileşme Seminerleri, Attendee, Çankırı, Turkey, 2018
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Awards

Barut B., TEB ECZACILIK AKADEMİSİ 2021 YILI TEŞVİK ÖDÜLÜ, Türk Eczacıları Birliği Eczacılık Akademisi, September 2021

Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Mayıs), Tübitak, May 2021

Barut B., 2019 Yılı Genç Bilim ve Sanat İnsanı Ödülü, Karadeniz Teknik Üniversitesi, August 2020

Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Ağustos), Tübitak, August 2020

Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Temmuz), Tübitak, July 2020

Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Ocak), Tübitak, January 2020

Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Aralık), Tübitak, December 2019

BARUT B., Prof. Dr. Nazmi ÖZER Bilim Ödülü (1.lık), Türk Biyokimya Derneği, December 2019

BARUT B., BARUT E. N., BARUT E. N., ÖZEL A., BARUT B., BEKAR M., BEKAR M., BARUT B., BARUT B., TAHAOĞLU G., Yayın Teşvik Ödülü, TÜBİTAK, October 2019

Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Haziran), Tübitak, June 2019

BARUT B., 2018 Yılı Genç Bilim ve Sanat İnsanı Ödülü, Karadeniz Teknik Üniversitesi, May 2019

Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Aralık), Tübitak, December 2018

BARUT B., BIYIKLIOĞLU Z., Prof. Dr. Nazmi ÖZER Bilim Ödülü (3.lük), Türk Biyokimya Derneği, October 2018

BARUT B., Prof.Dr. Nazmi ÖZER Bilim Ödülü (2.lık), Türk Biyokimya Derneği, October 2018

Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Eylül), Tübitak, September 2018

Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Temmuz), Tübitak, July 2018

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BARUT B., 2016 Yılı Genç Bilim ve Sanat İnsanı Ödülü, Karadeniz Teknik Üniversitesi, May 2017

Barut B., TÜBİTAK YAYIN TEŞVİK ÖDÜLÜ (Mayıs), Tübitak, May 2017

BARUT B., Karadeniz Teknik Üniversitesi Fen Fakültesi Birinciliği, Karadeniz Teknik Üniversitesi, June 2013

BARUT B., Karadeniz Teknik Üniversitesi Kimya Bölümü Birinciliği, Karadeniz Teknik Üniversitesi, June 2013