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Eğitim Bilgileri

Doktora, Karadeniz Teknik Üniversitesi, -, Kimya, Türkiye 1995 - 2000

Yüksek Lisans, Karadeniz Teknik Üniversitesi, -, Kimya, Türkiye 1991 - 1995

Lisans, Karadeniz Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya, Türkiye 1987 - 1991

Yaptığı Tezler

Doktora, BAZI İMİDİK VE HİDRAZONİK ASİT TÜREVLERİ İLE BAZI HETEROHALKALI BİLEŞİKLERİN SENTEZİ VE REAKSİYONLARININ İNCELENMESİ, Karadeniz Teknik Üniversitesi, -, Kimya, 2000

Yüksek Lisans, 3-AMİNO-1,2,4-TRİAZOL'ÜN BAZI REAKSİYONLARININ İNCELENMESİ, Karadeniz Teknik Üniversitesi, -, Kimya, 1994

Araştırma Alanları

Kimya, Organik Kimya, Heterosiklik Bileşikler Kimyası, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Karadeniz Teknik Üniversitesi, Fen Fakültesi, Kimya, 2015 - Devam Ediyor

Doç. Dr., Karadeniz Teknik Üniversitesi, Fen Fakültesi, Kimya, 2010 - 2015

Yrd. Doç. Dr., Karadeniz Teknik Üniversitesi, Giresun Fen Edebiyat Fakültesi, Kimya, 2001 - 2008

Araştırma Görevlisi, Karadeniz Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 1993 - 2001

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

1. Synthesis of 1,2,4-Triazole substituted Co(II) and Cu(II) phthalocyanine compounds and investigation of their photocatalytic activities in the photochemical degradation reaction of 4-

nitrophenol

Avlar A., Muzaffarzade Y., TUTAL B., BEKİRCAN O., SAKA E. T.

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- II. **Synthesis and comparison of the performance of two different water-soluble phthalocyanine based electrochemical biosensor**
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- III. **Novel phthalocyanines bearing 1,2,4-triazole substituents linked by sulfur bridges and investigating the photophysical and singlet oxygen generation properties**
MISIR M. N., Misir G., BEKİRCAN O., KANTEKİN H., Ozturk D., Durmuş M.
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- IV. **Development of biobased, sustainable and environmentally friendly glycerol ester rosins for the production of thermoplastic road marking paint**
Yılmaz B., Deniz İ., Fazlı H., Bekircan O., Gültekin E., Pranovich A.
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.141, sa.38, 2024 (SCI-Expanded)
- V. **Investigation of the Properties of 1,2,4-Triazole-3-thione Schiff Base Derivatives by Urease Inhibition as Therapeutic or Agrochemical Candidate Molecules**
Zehir Kirkbir G., Gultekin E., KOLCUOĐLU Y., BEKİRCAN O., ÇOLAK A.
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- VI. **Sustainable Thermoplastic Road Marking Paint Production from Natural Modified Rosins**
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- VII. **A green and simplified approach for the quantitative and sensitive analysis of heavy metal ions in sea and stream waters**
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WATER SCIENCE AND TECHNOLOGY, cilt.88, sa.11, ss.2862-2872, 2023 (SCI-Expanded)
- VIII. **Metallo-phthalocyanines Containing 1,3,4-oxadiazole Substituents: Synthesis, Characterization, Electrochemical and Spectroelectrochemical Properties**
Akyüz D., DEMİRBAŞ Ü., BEKİRCAN O.
CHEMISTRYSELECT, cilt.8, sa.13, 2023 (SCI-Expanded)
- IX. **Enhancing the photocatalytic performance of Co(II) and Cu(II) phthalocyanine by containing 1,3,4-thiadiazole groups in 4-nitrophenol oxidation reaction**
SAKA E. T., Tekintas K., BEKİRCAN O., BIYIKLIOĐLU Z.
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- X. **1,3,4-Thiadiazole and 1,2,4-triazole-5-thione derivatives bearing 2-pentyl-5-phenyl-2,4-dihydro-3H-1,2,4-triazole-3-one ring: Synthesis, molecular docking, urease inhibition, and crystal structure**
Gultekin E., BEKİRCAN O., KARA Y., GÜLER H. İ., Soyly M. S., KOLAYLI S.
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- XI. **Synthesis of water soluble copper(II), manganese(III) phthalocyanines and their photocatalytic performances in benzyl alcohol photooxidation**
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- XII. **Design and synthesis of new heterocyclic compounds containing 5-[(1*H*-1,2,4-triazol-1-yl)methyl]-3*H*-1,2,4-triazole-3-thione structure as potent hEGFR inhibitors**
Kolcuođlu Y., Bekircan O., Fazlı H., Sahin E., Türe A., Akdemir A., Hamarat Sanlier S.
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- XIII. **In vitro, in silico and Pharmaco-toxicological Efficiencies of some Triazole Derivatives on Inhibition of Digestive Enzyme Alpha-amylase**
Demir E., ÇOLAK A., Uzuner S. C., YAŞAR A., BEKİRCAN O., Kabahasanoglu A.
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- XIV. **Preparation, characterization and photocatalytic activity of novel 1,2,4-triazole based Cu(II) and**

Zn(II) phthalocyanines modified TiO₂ nanoparticles

Tekintas K., KESMEZ Ö., BEKİRCAN O., SAKA E. T.

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- XV. **Monoamine oxidase A and B inhibitory activities of 3,5-diphenyl-1,2,4-triazole substituted [1,2,4]triazolo[3,4-b][1,3,4]thiadiazole derivatives**
BEKİRCAN O., DANIŞ Ö., Sahin M. E., Cetin M.
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- XVI. **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.
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- XVII. **Sulfur bridged new metal-free and metallo phthalocyanines carrying 1,2,4-triazole rings and their photophysicochemical properties**
MISIR M. N., Misir G., BEKİRCAN O., KANTEKİN H., Ozturk D., Durmus M.
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- XVIII. **Synthesis of new 1,2,4-triazole-(thio)semicarbazide hybrid molecules: Their tyrosinase inhibitor activities and molecular docking analysis**
Gultekin E., BEKİRCAN O., KOLCUOĞLU Y., AKDEMİR A.
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- XIX. **Synthesis and pancreatic lipase inhibitory activities of some 1,2,4-triazol-5(3)-one derivatives**
Ozdemir Y., BEKİRCAN O., BALTAŞ N., MENTEŞE E.
JOURNAL OF HETEROCYCLIC CHEMISTRY, cilt.57, sa.12, ss.4239-4253, 2020 (SCI-Expanded)
- XX. **Synthesis and evaluation of lipase inhibitory activities of substituted 1,2,4-triazole derivatives**
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- XXI. **Synthesis and kinetics studies of N'-(2-(3,5-disubstituted-4H-1,2,4-triazol-4-yl)acetyl)-6/7/8-substituted-2-oxo-2H-chromen-3-carbohydrazide derivatives as potent antidiabetic agents**
Mentese E., Baltas N., BEKİRCAN O.
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- XXII. **Inhibition of urease by some new synthesized 1,2,4-triazol derivatives: Inhibition mechanism and molecular docking**
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- XXIII. **Synthesis of 1,2,4-triazole-5-on derivatives and determination of carbonic anhydrase II isoenzyme inhibition effects**
AKIN S., AYALOĞLU H., GULTEKİN E., ÇOLAK A., BEKİRCAN O., Akatin M. Y.
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- XXIV. **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., GULTEKİN E., BEKİRCAN O.
INORGANICA CHIMICA ACTA, cilt.487, ss.201-207, 2019 (SCI-Expanded)
- XXV. **Synthesis, biological activities and molecular docking studies of some novel 2,4,5-trisubstituted-1,2,4-triazole-3-one derivatives as potent tyrosinase inhibitors**
Akn S., Demir E., Çolak A., Kolcuoğlu Y., Yıldırım N., Bekircan O.
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- XXVI. **Investigation of tyrosinase inhibition by some 1,2,4 triazole derivative compounds: In vitro and in silico mechanisms**
DEMİR E., ÇOLAK A., KALFA A., YAŞAR A., BEKİRCAN O., Akatin M. Y.
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- XXVII. **A Study On Synthesis, Biological Activities and Molecular Modelling of Some Novel Trisubstituted 1,2,4-Triazole Derivatives**
Gultekin E., KOLCUOĞLU Y., AKDEMİR A., Sirin Y., BEKTAŞ H., BEKİRCAN O.
CHEMISTRYSELECT, cilt.3, sa.31, ss.8813-8818, 2018 (SCI-Expanded)
- XXVIII. **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.
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- XXIX. **Synthesis and Biological Significances of New Heterocyclic Compounds Containing 5-(4-Chlorobenzyl)-3-(4-Chlorophenyl)-1H-1,2,4-triazol Ring**
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- XXX. **A Novel Carrier Element-free Co-precipitation Method for Separation/Preconcentration of Lead and Cadmium Ions from Environmental Matrices**
BULUT V. N., Demirci H., ÖZDEŞ D., GÜNDOĞDU A., BEKİRCAN O., SOYLAK M., DURAN C.
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- XXXI. **SYNTHESIS OF NEW FLUORINE-CONTAINING 1,2,4-TRIAZOLE-5-ON DERIVATIVES WITH THEIR ANTI-UREASE, ANTI-XANTHINE OXIDASE AND ANTIOXIDANT ACTIVITIES**
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- XXXII. **Synthesis, structural characterizations, and electrochemical and spectroelectrochemical properties of novel peripherally octa-substituted metallophthalocyanines**
Kantekin H., Sarkı G., Koca A., Bekircan O., Aktaş A., Kobak R. Z., Sağlam M. B.
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- XXXIII. **Synthesis and antioxidant activities of some new triheterocyclic compounds containing benzimidazole, thiophene, and 1,2,4-triazole rings**
Mentese E., Yilmaz F., Baltas N., BEKİRCAN O., KAHVECİ B.
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- XXXIV. **1,2,4-Triazole-substituted metallophthalocyanines carrying redox active cobalt(II), manganese(III), titanium(IV) center and their electrochemical studies**
Cakir D., BEKİRCAN O., BIYIKLIOĞLU Z.
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- XXXV. **Synthesis and electrochemical properties of axially disubstituted silicon phthalocyanine and peripherally tetra substituted manganese (III) phthalocyanine bearing 1,2,4-triazole substituents**
BIYIKLIOĞLU Z., BEKİRCAN O.
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- XXXVI. **Synthesis of some novel heterocyclic compounds derived from 2-[3-(4-chlorophenyl)-5-(4-methoxybenzyl)-4H-1,2,4-triazol-4-yl]acetohydrazide and investigation of their lipase and alpha-glucosidase inhibition**
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- XXXVII. **A Novel Iron(III)-Selective Membrane Potentiometric Sensor Based on 5-Chloro-3-[4-(trifluoromethoxy) phenylimino] Indolin-2-one**
Demir E., Kemer B., BEKİRCAN O., Aboul-Enein H. Y.
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- XXXVIII. **Microwave Assisted Synthesis of Some Novel 2-(3-Chlorobenzyl)-1H-Benzimidazole Derivatives and Determination of Their Antimicrobial Activity and pKa Values**
Mentese E., BEKİRCAN O., Islamoglu F., Beris F. S.
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- XXXIX. **Synthesis and Pharmacological Activities of Some New 2-[1-Heptyl-3-(4-methoxybenzyl)-5-oxo-1,5-dihydro-4H-1,2,4-triazol-4-yl]acetohydrazide Derivatives**

BEKİRCAN O., Mentese E., Ulker S.

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- XL. **The synthesis and structural characterization of new metallo phthalocyanines with 1,2,4-triazole fragments**
Bayrak R., BEKİRCAN O., Durmus M., DEĞİRMENCİOĞLU İ.
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- XLII. **Synthesis of Some New 1,2,4-Triazole Derivatives Starting from 3-(4-Chlorophenyl)-5-(4-methoxybenzyl)-4H-1,2,4-triazol with Anti-Lipase and Anti-Urease Activities**
BEKİRCAN O., Mentese E., Ülker S., Küçük C.
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- XLIV. **Synthesis of Unsymmetrical 3,5-disubstituted 1,2,4-triazole Derivatives with Their pKa Values**
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- XLV. **Efficient Synthesis of 5-(Substituted)benzyl-2,4-Dihydro-3H-1,2,4-Triazol-3-Ones Using Microwave Irradiation**
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- XLVI. **Use of ester formylhydrazones for the synthesis of 1,2,4-triazole and 1,3,4-oxadiazole derivatives**
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- XLVII. **Microwave-assisted synthesis of new benzimidazole derivatives with lipase inhibition activity** Read More: <http://informahealthcare.com/doi/abs/10.3109/14756366.2012.75388>
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- XLVIII. **4-amino-3-(p-chlorophenyl)-5-(p-mrthoxybenzyl)-4H-1,2,4-triazole: X-ray and DFT-calculated Structures**
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- XLIX. **DETERMINATION OF PROTONATION CONSTANTS OF SOME 3-ALKYL(ARYL)-4-(p-t-BUTYL(BENZYL/BENZYLIDEN)AMINO)-4,5-DIHYDRO-1H-1,2,4-TRIAZOLE-5-ONE DERIVATIVES IN ETHANOL-WATER MIXTURES**
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- L. **Synthesis and Characterization of Some New 3-(4-tert-Butylphenyl)-5-phenyl-4H-1,2,4-triazole Derivatives**
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- LI. **Carrier element-free coprecipitation (CEFC) method for the separation, preconcentration and speciation of chromium using an isatin derivative**
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- LII. **Microwave-assisted synthesis and antifungal activity of some new 1H-1,2,4-triazole derivatives**
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- LIV. **Novel metallophthalocyanines bearing 3-(p-chlorophenyl)-5-p-tolyl-4H-1,2,4-triazole bulky substituents by microwave irradiation**
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- LV. **Synthesis of Schiff and Mannich bases of isatin derivatives with 4-Amino-4,5-dihydro-1H-1,2,4-triazole-5-ones**
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- LVI. **Synthesis and antioxidant properties of some new 3-(4-chlorophenyl)-5-(pyridin-4-yl)-4H-1,2,4-triazole derivatives**
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- LVII. **A New pH Indicator Based on 2, 5-Diaryl-1-salicylideneamino-1, 3, 4-triazole Derivative**
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- LVIII. **Synthesis of Some N-Alkoxy carbonyl-N''-benzoyl-benzamidrazones (p-toluamidrazones) and 1, 3, 5-Trisubstituted 1, 2, 4-Triazole Derivatives from N-Benzoylimidates and their Antimicrobial and Anticancer Screening Studies**
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- LIX. **Synthesis, crystal and molecular structure of 3-phenyl-5-p-tolyl-4(3,4,5-trimethoxybenzylideneamino)-4H-1,2,4-triazole**
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- LX. **Synthesis of new bis-1,2,4-triazole derivatives**
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- LXI. **Synthesis and anticancer evaluation of some new unsymmetrical 3,5-diaryl-4H-1,2,4-triazole derivatives**
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- LXII. **Synthesis and antimicrobial activity of some 3-alkyl-4-(arylmethyleneamino)-4, 5-dihydro-1H-1, 2, 4-triazol-5-ones**
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- LXIII. **Synthesis of some 3,5-biphenyl-4H-1,2,4-triazole derivatives as antitumor agents**
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- LXIV. **Convenient synthesis of fused heterocyclic 1,3,5-triazines from some N-acyl imidates and heterocyclic amines as anticancer and antioxidant agents**
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