

Prof. SELEN BİLGE KOÇAK



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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAG-7846-2020

ScopusID: 55425657700

Yoksis Researcher ID: 109292

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1999 - 2006

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 1996 - 1999

Undergraduate, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey 1992 - 1996

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Fosfor İçeren ve İçermeyen Makrohalkalı Aza-taç Eterlerin ve Komplekslerinin Sentezi, Yapılarının Spektroskopik (^1H -, ^{13}C -, ^{31}P -NMR, HETCOR ve COSY) ve Kristallografik Yöntemler ile Aydınlatılması, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2005

Postgraduate, Fosfor içeren makrosiklik lariat eterlerin sentezi ve kompleksleri, Ankara University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 1999

Research Areas

Bioinorganic Chemistry, Boron Chemistry, Inorganic Ring Compounds, Coordination Chemistry, Novel Ligands, Natural Sciences

Academic Titles / Tasks

Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2016 - Continues
Associate Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2011 - 2016
Assistant Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2006 - 2011
Research Assistant, Ankara University, Fen Fakültesi, Kimya Bölümü, 1998 - 2006

Academic and Administrative Experience

Ankara University, 2012 - 2013

Ankara University, 2012 - 2013

Courses

Chemistry of Metals, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020

SPECIAL SUBJECT, Undergraduate, 2022 - 2023, 2020 - 2021

Thesis Management, Doctorate, 2021 - 2022

Special Subject, Undergraduate, 2021 - 2022

Inorganic Chemistry II, Undergraduate, 2021 - 2022

Özel Konu, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

Specialized Field Course, Doctorate, 2021 - 2022

Inorganic Chemistry Laboratory, Undergraduate, 2021 - 2022

Boron Chemistry, Doctorate, 2022 - 2023

Boron Chemistry, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Specialized Field Course, Doctorate, 2022 - 2023

General Chemistry Laboratory, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

INORGANIC CHEMISTRY I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

FUNDAMENTALS OF CHEMISTRY I, Undergraduate, 2021 - 2022

INORGANIC CHEMISTRY II, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019

Chemistry Laboratory, Undergraduate, 2021 - 2022, 2020 - 2021

Özel Konu, Undergraduate, 2019 - 2020, 2018 - 2019

813598 BOR KİMYASI (FEN BİLİMLERİ ENSTİTÜSÜ), Doctorate, 2017 - 2018, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009

813645 UZMANLIK ALANI (FEN BİLİMLERİ ENSTİTÜSÜ), Postgraduate, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009

KİM152 TEMEL KİMYA LABORATUVARI (FİZİK MÜHENDİSLİĞİ BÖLÜMÜ), Undergraduate, 2017 - 2018, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2006 - 2007

CHM 125 TEMEL KİMYA LABORATUVARI (ENERJİ MÜHENDİSLİĞİ), Undergraduate, 2017 - 2018

813645 UZMANLIK ALANI (FEN BİLİMLERİ ENSTİTÜSÜ), Doctorate, 2017 - 2018

KİM123 TEMEL KİMYA LABORATUVARI (KİMYA MÜHENDİSLİĞİ BÖLÜMÜ), Undergraduate, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2012 - 2013

CHM125 TEMEL KİMYA LABORATUVARI (BİYOMEDİKAL MÜHENDİSLİĞİ), Undergraduate, 2017 - 2018

KİM 113 TEMEL KİMYA I, Undergraduate, 2017 - 2018, 2016 - 2017

KİM109 TEMEL KİMYA LABORATUVARI (JEOLJİ MÜHENDİSLİĞİ BÖLÜMÜ), Undergraduate, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

KİM420 ANORGANİK KİMYA LABORATUVARI (KİMYA BÖLÜMÜ), Undergraduate, 2017 - 2018, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2006 - 2007

KİM 114 TEMEL KİMYA II, Undergraduate, 2017 - 2018, 2016 - 2017

813645 Uzmanlık Alanı , Postgraduate, 2016 - 2017

KİM 109 Temel Kimya Laboratuvarı , Undergraduate, 2016 - 2017

KİM 420 Anorganik Kimya Laboratuvarı , Undergraduate, 2016 - 2017

KİM 123 Temel Kimya Laboratuvarı , Undergraduate, 2016 - 2017
813645 Uzmanlık Alanı , Doctorate, 2016 - 2017
KİM 152 Temel Kimya Laboratuvarı , Undergraduate, 2016 - 2017
Chemistry of Metals, Undergraduate, 2015 - 2016, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009
Chemistry of Metals, Undergraduate, 2015 - 2016, 2014 - 2015, 2012 - 2013
KİM113 Temel Kimya I (Zootekni Bölümü), Undergraduate, 2015 - 2016, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
KİM114 Temel Kimya II (Zootekni Bölümü), Undergraduate, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
Özel Konu, Undergraduate, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2006 - 2007
813598 Bor Kimyası (Fen Bilimleri Enstitüsü), Postgraduate, 2014 - 2015
KİM420 Anorganik Kimya Laboratuvarı (Kimya Bölümü, II.Eğitim), Undergraduate, 2014 - 2015
KİM101 Temel Kimya I (Jeoloji Mühendisliği) , Undergraduate, 2012 - 2013
KİM440 Özel Konu (Kimya Bölümü, II.Eğitim), Undergraduate, 2012 - 2013
KİM102 Temel Kimya II (Gıda Mühendisliği Bölümü), Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010
KİM101 Temel Kimya I (Gıda Mühendisliği Bölümü), Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011
KİM102 Temel Kimya II (Jeoloji Mühendisliği Bölümü), Undergraduate, 2012 - 2013
KİM113 Temel Kimya I (Tarla Bitkileri Bölümü), Undergraduate, 2009 - 2010
KİM424 Atomik Moleküler Spektroskopi (Kimya Bölümü), Undergraduate, 2006 - 2007

Advising Theses

BİLGE KOÇAK S., Syntheses of dinuclear boron complexes with seven-, eight-, nine- and eleven-membered boraxane groups, their spectroscopic properties, antimicrobial activities and effects against to dna, Postgraduate, A.KÖMEZ(Student), 2019
BİLGE KOÇAK S., The syntheses of di- and trinuclear boron complexes containing N₂,O₂,S₂-donor atoms, their spectroscopic properties, biological activities and effects against to DNA, Postgraduate, E.AYDINER(Student), 2019
BİLGE KOÇAK S., Syntheses, structural characterization and biological activities of boron complexes with homotrinary boroxine groups, Postgraduate, K.KARAAĞAÇ(Student), 2019
BİLGE KOÇAK S., Tiramin fonksiyonlu tamamen heterohalkalı amin sübtitüe spiro-fosfazen türevlerinin sentezi, kristal yapılarının, spektroskopik özelliklerinin, antimikrobiyal aktivitelerinin ve DNA'ya etkilerinin incelenmesi, Postgraduate, S.PEKTAŞ(Student), 2015
BİLGE KOÇAK S., Heterohalkalı amin sübtitüe spiro-ansa-spiro-fosfazenlerin sentezi, spektroskopik ve kristalografik özellikleri, biyolojik aktiflikleri ve DNA'ya etkileri, Postgraduate, N.SEVİN(Student), 2013
BİLGE KOÇAK S., Sübtitüe spiro-ansa-spiro- ve spiro-bino-spiro-fosfazen türevlerinin sentezi, kristal yapılarının, spektroskopik özelliklerinin, biyolojik aktifliklerinin ve DNA'ya etkilerinin incelenmesi, Postgraduate, S.KOÇOĞLU(Student), 2012
BİLGE KOÇAK S., Bis-C-pivot makrohalkalarının sentezi, yapılarının spektroskopik ve kristalografik yöntemler ile incelenmesi ve stereojenizm, Postgraduate, H.ÜÇKARDEŞ(Student), 2010

Published journal articles indexed by SCI, SSCI, and AHCI

I. Recent trends in core/shell nanoparticles: their enzyme-based electrochemical biosensor applications

BİLGE KOÇAK S., DOĞAN TOPAL B., Gurbuz M. M., ÖZKAN S. A., Sinag A.
MICROCHIMICA ACTA, vol.191, no.5, 2024 (SCI-Expanded)

II. Recent developments and modification strategies in electrochemical sensors based on green

nanomaterials for catechol detection

DONAR Y. O., BİLGE KOÇAK S., Bayramog D., Ozoylumlu B., Ergenekon S., Sinag A.
TRENDS IN ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.41, 2024 (SCI-Expanded)

- III. **Syntheses, spectral and chiral properties and DNA interactions of multi-heterocyclic di- and trinuclear boron complexes**
BİLGE KOÇAK S., Kaya O., Kilic Z., ÇOBAN B., YILDIZ U., ÇOŞUT B.
NEW JOURNAL OF CHEMISTRY, vol.44, no.48, pp.20966-20981, 2020 (SCI-Expanded)
- IV. **Phosphorus-nitrogen compounds (Part 51): the relationship between spectroscopic and crystallographic data of mono- and di-spirocyclophosphazene derivatives with 4-fluoro/nitrophenylmethyl pendant arm/arms**
OKUMUŞ A., ELMAS G., ASMAFİLİZ N., BİLGE KOÇAK S., Kilic Z.
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.3, pp.559-573, 2020 (SCI-Expanded)
- V. **Phosphorus-nitrogen compounds- (Part 50): correlations between structural parameters for cylophosphazene derivatives containing ferrocenyl pendant arm(s)**
ASMAFİLİZ N., ELMAS G., OKUMUŞ A., BİLGE KOÇAK S., Kilic Z.
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.3, pp.543-558, 2020 (SCI-Expanded)
- VI. **spiro-Cyclotriphosphazenes containing 4-hydroxyphenylethyl pendant arm: Syntheses, structural characterization and DNA interaction study**
Pektas S., BİLGE KOÇAK S., Bosterzi N. S., Kilic Z., Zeyrek C. T., ÇOBAN B., YILDIZ U., ÇELİK Ö.
INORGANICA CHIMICA ACTA, vol.474, pp.51-65, 2018 (SCI-Expanded)
- VII. **Molecular structure and density functional modelling studies of 2-[(E)-2-(4-hydroxyphenyl)ethyliminomethyl]phenol**
Zeyrek C. T., BİLGE KOÇAK S., ÜNVER H., Pektas S., Basterzi N. S., ÇELİK Ö.
JOURNAL OF MOLECULAR STRUCTURE, vol.1100, pp.570-581, 2015 (SCI-Expanded)
- VIII. **Syntheses, structural characterization and biological activities of spiro-ansa-spiro-cyclotriphosphazenes**
Basterzi N. S., BİLGE KOÇAK S., OKUMUŞ A., Kilic Z., HÖKELEK T., ÇELİK Ö., TÜRK M., Koc L. Y., AÇIK L., AYDIN B.
NEW JOURNAL OF CHEMISTRY, vol.39, no.11, pp.8825-8839, 2015 (SCI-Expanded)
- IX. **Syntheses, spectroscopic properties, crystal structures, biological activities, and DNA interactions of heterocyclic amine substituted spiro-ansa-spiro- and spiro-bino-spiro-phosphazenes**
BİLGE KOÇAK S., Kocoglu S., OKUMUŞ A., Kilic Z., Ozturk A., HÖKELEK T., Oner Y., AÇIK L.
INORGANICA CHIMICA ACTA, vol.406, pp.160-170, 2013 (SCI-Expanded)
- X. **Synthesis of 15-, 16-, and 17-Membered Bis-C-Pivot Macrocycles Consisting of N2O2 Donor-Type Crown Ethers and Dialkyl Phosphonates**
BİLGE KOÇAK S., Uckardes H.
HETEROATOM CHEMISTRY, vol.23, no.6, pp.583-597, 2012 (SCI-Expanded)
- XI. **Syntheses, spectroscopic properties and stereochemistry of bis-C-pivot macrocycles with two dialkyl phosphonate groups**
Bilge S., Kilic Z., Davies D. B.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.81, no.1, pp.441-448, 2011 (SCI-Expanded)
- XII. **Studies on the mechanism of phosphazene ring-opening polymerization (ROP)**
Bilge S.
Turkish Journal of Chemistry, vol.35, no.5, pp.745-756, 2011 (SCI-Expanded)
- XIII. **Surface modification and characterization of phenanthroline nanofilms on carbon substrate**
ÖZTEKİN Y., YAZICIGİL Z., Solak A. O., ÜSTÜNDAĞ Z., Kilic Z., Bilge S.
Surface and Interface Analysis, vol.43, no.5, pp.923-930, 2011 (SCI-Expanded)
- XIV. **Phosphorus-nitrogen compounds. Part 20: Fully substituted spiro-cyclotriphosphazenic lariat (PNP-pivot) ether derivatives**
OKUMUŞ A., Bilge S., Kilic Z., Ozturk A., HÖKELEK T., YILMAZ F.
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.76, no.3-4, pp.401-409, 2010 (SCI-

Expanded)

- XV. **Experimental and theoretical calculations on corrosion inhibition of steel in 1 M H₂SO₄ by crown type polyethers**
Hasanov R., Bilge S., Bilgic S., Gece G., Kilic Z.
Corrosion Science, vol.52, no.3, pp.984-990, 2010 (SCI-Expanded)
- XVI. **Phosphorus-nitrogen compounds: Part 16. Synthesis, stereogenism, anisochronism and the relationship between ³¹P NMR spectral and crystallographic data of monotopic spiro-crypta phosphazene derivatives**
Kilic Z., OKUMUŞ A., Demiriz S., Bilge S., Ozturk A., Caylak N., HÖKELEK T.
Journal of Inclusion Phenomena and Macrocyclic Chemistry, vol.65, no.3, pp.269-286, 2009 (SCI-Expanded)
- XVII. **Intramolecular hydrogen bonding and tautomerism in Schiff bases: Part VI. Syntheses and structural investigation of salicylaldimine and naphthaldimine derivatives**
Bilge S., Kilic Z., HAYVALI Z., HÖKELEK T., Safran S.
Journal of Chemical Sciences, vol.121, no.6, pp.989-1001, 2009 (SCI-Expanded)
- XVIII. **Clathrate and channel inclusion systems co-exist in the crystal structure of a bis-C-pivot macrocycle (Z' = 2)**
Bilge S., Coles S. J., Davies D. B., Hursthouse M. B., Kilic Z., Rutherford J. S., Shaw R. A.
CrystEngComm, vol.10, no.7, pp.873-878, 2008 (SCI-Expanded)
- XIX. **Phosphorus-nitrogen compounds. Part 13. Syntheses, crystal structures, spectroscopic, stereogenic, and anisochronic properties of novel spiro-ansa-spiro-, spiro-bino-spiro-, and spiro-crypta phosphazene derivatives**
Bilge S., Demiriz S., Okumus A., Kilic Z.
INORGANIC CHEMISTRY, vol.45, no.21, pp.8755-8767, 2006 (SCI-Expanded)
- XX. **Preparation and characterization of diethylene glycol bis(2-aminophenyl) ether-modified glassy carbon electrode**
Isbir A. A., Solak A. O., Ustundag Z., Bilge S., Kilic Z.
Analytica Chimica Acta, vol.573-574, pp.26-33, 2006 (SCI-Expanded)
- XXI. **Electrochemical behavior of a crown type polyether: 2,5,8-trioxa-16,20-diazatricyclo[20.4.0.09,14]-hexacosa-9,11,13,15,20,22,24,26-octaene**
Gokmese E., Gokmese F., Solak A., Bilge S., Kilic Z.
Electroanalysis, vol.17, no.22, pp.2026-2031, 2005 (SCI-Expanded)
- XXII. **The electrochemical behavior of some podands at a benzo[c]cinnoline modified glassy carbon electrode**
Isbir A., Solak A., Ustundag Z., Bilge S., Natsagdorj A., Kilic E., Kilic Z.
Analytica Chimica Acta, vol.547, no.1, pp.59-63, 2005 (SCI-Expanded)
- XXIII. **Phosphorus-nitrogen compounds: novel spiro-cyclophosphazenic lariat (PNP-pivot) ether derivatives. Structures of 4,4,6,6-tetrachloro-2,2-[3-oxa-1,5-pentane dioxy bis(2-phenylamino)]cyclo-2 lambda(5),4 lambda(5),6 lambda(5)-triphosphazene and 4,4,6,6-tetrachloro-2,2-[1,2-xylylene dioxy bis(2-phenylamino)]cyclo-2 lambda(5),4 lambda(5),6 lambda(5)-triphosphazene. Part X**
Ozguç B., Bilge S., Caylak N., Demiriz E., Isler H., Hayvali M., Kilic Z., Hokelek T.
JOURNAL OF MOLECULAR STRUCTURE, vol.748, no.1-3, pp.39-47, 2005 (SCI-Expanded)
- XXIV. **Phosphorus-nitrogen compounds: Novel fully substituted spiro-cyclophosphazenic lariat (PNP-pivot) ether derivatives. Structures of 4,4,6,6-tetrapyrrolidino-2,2-[3-oxa-1,5-pentane dioxy bis(2-phenylamino)]cyclo-2 lambda(5),4 lambda(5),6 lambda(5)-triphosphazene and 4,4,6,6-tetrapyrrolidino-2,2-[1,2-xylylene dioxy bis(2-phenylamino)]cyclo-2 lambda(5), 4 lambda(5),6 lambda(5)-trinosphazene. Part XI**
Bilge S., Ozguç B., Safran S., Demiriz S., Isler H., Hayvali M., Kilic Z., Hokelek T.
JOURNAL OF MOLECULAR STRUCTURE, vol.748, no.1-3, pp.101-109, 2005 (SCI-Expanded)
- XXV. **Phosphorus-nitrogen compounds: Novel spiro-crypta-phosphazenes. Structure of pentane-3-oxa-N,N'-bis(1,5-oxybenzyl)-spiro (propane-1',3'-diamino)-4,4,6,6-tetrachlorocyclo- 2λ 5,4λ 5, 6λ 5-**

triphosphazatriene. Part IX

Selen B., Kilic Z., Caylak N., Hokelek T.

Journal of Molecular Structure, vol.707, no.1-3, pp.139-146, 2004 (SCI-Expanded)

- XXVI. **1,3-Bis[2-(2-hydroxybenzylideneamino)phenoxy]propane**
Hokelek T., Bilge S., Demiriz S., Ozguc B., Kilic Z.
Acta Crystallographica Section C: Crystal Structure Communications, vol.60, no.11, 2004 (SCI-Expanded)
- XXVII. **Phosphorus-nitrogen compounds: Novel spirocyclic phosphazene derivatives. Structure of 3,3"-propane-1,3-diylbis[4',4',6',6'- tetrachloro-3,4-dihydrospiro[1,3,2-benzoxazaphosphorine-2,2' λ 5-[4 λ 5,6 λ 5][1,3,5,2,4,6] triazatriphosphorine]]**
Bilge S., Natsagdorj A., Demiriz S., Caylak N., Kilic Z., Hokelek T.
Helvetica Chimica Acta, vol.87, no.8, pp.2088-2099, 2004 (SCI-Expanded)
- XXVIII. **4,4,6,6-Tetrachloro-1',3'-[2,2'-(3-oxapentane-1,5-dioxy) dibenzyl]-2 λ 5,4 λ 5,6 λ 5-cyclotriphosphazene-2-spiro-2'-1,3,2-diazaphospholane benzene hemisolvate**
Tercan B., Hokelek T., Bilge S., Demiriz S., Kilic Z.
Acta Crystallographica Section E: Structure Reports Online, vol.60, no.8, 2004 (SCI-Expanded)
- XXIX. **4,4,6,6-Tetrachloro-2,2-(ethylene-dioxydi-o-phenylenediimino) -2 λ 5 ,4 λ 5 ,6 λ 5- cyclotriphosphazene**
Caylak N., Hokelek T., Bilge S., Ozguc B., Kilic Z.
Acta Crystallographica Section C: Crystal Structure Communications, vol.60, no.7, 2004 (SCI-Expanded)
- XXX. **4,4,6,6-Tetrachloro-2,2-(propylene dioxydi-o-phenylenediimino)- 2 λ 5,4 λ 5,6 λ 5- cyclotriphosphazene**
Tercan B., Hokelek T., Bilge S., Ozguc Z., Kilic Z.
Acta Crystallographica Section C: Crystal Structure Communications, vol.60, no.6, 2004 (SCI-Expanded)
- XXXI. **6',6'-Dichloro-3,3"-etheno-3,4,3", 4"-tetrahydro-2H-1,3-benzoxazine-2-spiro-2'-(2 λ 5, 4 λ 5,6 λ 5-cyclotriphosphazene) -4'-spiro-2"-2H-1,3-benzoxazine**
Tercan B., Hokelek T., Bilge S., Natsagdorj A., Demiriz S., Kilic Z.
Acta Crystallographica Section E: Structure Reports Online, vol.60, no.5, 2004 (SCI-Expanded)
- XXXII. **Complexes of Ni(II) and Pd(II) ions with 15- and 17-membered macrocycles containing O₂N₂- and O₂N₃-donors and the crystal structures of Ni(II) and Pd(II) complexes of 2,5-dioxa-13,16,19-triazatricyclo[19.4.0.0_{6,11}]-pentacosa-6,8,10,21, 23,25(1)-hexaene**
Bilge S., Kilic Z., Hokelek T., Erdogan B.
Journal of Molecular Structure, vol.691, no.1-3, pp.85-96, 2004 (SCI-Expanded)
- XXXIII. **1,15-diaza-3,4:12,13-dibenzo-5,8,11-trioxacycloheptadecane hemihydrate**
Hokelek T., Bilge S., Kilic Z.
Acta Crystallographica Section E: Structure Reports Online, vol.59, no.11, 2003 (SCI-Expanded)
- XXXIV. **Crystal structure of 2,5-dioxa-13,17-diazatricyclo[17.4.0.0(6),(11)]-tricoso-6,8,10,12,17,19,21,23(1)-octaene**
Hokelek T., Bilge S., Kilic Z.
ANALYTICAL SCIENCES, vol.18, no.9, pp.1065-1066, 2002 (SCI-Expanded)
- XXXV. **C-bis-pivot podands and lariat ethers: Synthesis and spectral investigations. Structure of 15,21-bis{2-[(hydroxy)(methoxy)-phosphoryl]}-2,5,8-trioxa-16,20-diazatricyclo [20.4.0.0_{9,14}] hexacosa-9,11,13,22,24,26(1)-hexaene-water (1/2). Part I**
Bilge S., Nadzagdorj A., Akduran N., Hokelek T., Kilic Z.
Journal of Molecular Structure, vol.611, no.1-3, pp.169-178, 2002 (SCI-Expanded)
- XXXVI. **Crystal structure of 15,21-bis(diethoxyphosphinoyl)-2,5,8-trioxa-16,20-diazatricyclo- [20.4.0.0_{9,14}] hexacosa-9,11,13,22,24,26(1)-hexaene-ethylphosphonic acid-water (1/1/1)**
HÖKELEK T., Bilge S., Akduran N., Kiliç Z.
Crystal Research and Technology, vol.36, no.4-5, pp.509-515, 2001 (SCI-Expanded)
- XXXVII. **Crystal structure of 3,4,6,7,15,16,17,18,19,20,21,27-Dodecahydro-2,5,8-trioxa-16,20-diazatetracyclo[20.4.1.(16,20)0.0(9,14)]heptacosa-9,11,13,22,24,26(1)-hexaene**
Hokelek T., Akduran N., Bilge S., Kilic Z.
ANALYTICAL SCIENCES, vol.17, no.3, pp.465-466, 2001 (SCI-Expanded)
- XXXVIII. **Crystal structure of 3,4,6,7,15,16,17,18,19,20,21-undecahydro-2,5,6-trioxa-16,20-**

- diazatricyclo[20.4.0.09,14]hexacosa-9,11,13,22,24,26(1)-hexaene**
Hokelek T., Akduran N., Bilge S., Kilic Z.
Analytical Sciences, vol.17, no.6, pp.801-802, 2001 (SCI-Expanded)
- XXXIX. **Crystal structure of 15,21-bis(diethoxyphosphinoyl)-2,5,8-trioxa-16,20-diazatricyclo-[20.4.0.0(9,14)] hexacosa-9,11,13,22,24,26(1)-hexaene-ethylphosphonic acid-water (1/1/1)**
Hokelek T., Bilge S., Akduran N., Kilic Z.
CRYSTAL RESEARCH AND TECHNOLOGY, vol.36, no.4-5, pp.509-515, 2001 (SCI-Expanded)
- XL. **5,6,7,8,9,10,11,12,18,19,21,22-Dodecahydro-8,9:18,19-dibenzo-1,4,7-triox a- 11,16-diazacyclononadeca-10,16-diene**
Hokelek T., Kilic Z., Bilge S.
Acta Crystallographica Section C: Crystal Structure Communications, vol.55, no.3, pp.381-383, 1999 (SCI-Expanded)
- XLI. **2,5,8-Trioxa-16,20-diazatricyclo[20.4.0.0 9,14]-hexacosa-9,11,13,15,20,22,24,26-octaene**
Hokelek T., Kilic Z., Bilge S.
Acta Crystallographica Section C: Crystal Structure Communications, vol.55, no.2, pp.248-250, 1999 (SCI-Expanded)

Articles Published in Other Journals

- I. **Reduction Mechanism Investigation of Some Schiff Base Podand Derivatives at Glassy Carbon Electrode by Using Electrochemical Techniques**
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- I. **Synthesis, Characterization and Antibacterial Activity of Macrocyclic Boronates**
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- II. **Synthesis and Antibacterial Activity of Dinuclear and Trinuclear Boron Complexes Containing Disulfide (S-S) Bonds**
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- IV. **Synthesis and Structural Characterization of Dinuclear and Trinuclear Boron Complexes**
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- V. **An Experimental and Theoretical Study on the Interaction of DNA with New Trinuclear Boron Complexes**
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- IX. **Synthesis and the Crystal Structure Characterization of Fully Piperidine Substituted spiroCyclotriphosphazene**
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- XXV. **The Relationship between 31P NMR Chemical Shifts and Endocyclic and Exocyclic NPN Bond Angles in Cyclic Phosphazene Derivatives**
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- XXVI. **Determination of Absolute Configuration of spiro-Crypta and spiro-ansa-spiro-Phosphazene Derivatives by Using 31P NMR**
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Invited Talks

Studies on Boron in the World and in Turkey and the Future of Boron Compounds, Workshop, Yalova Üniversitesi, Turkey, September 2022

Cyclotriphosphazenes with Pendant Arm and Six-Membered spiro Ring: Syntheses, Structural Characterization and DNA-Binding Study, Conference, National University of Mongolia (6th International Conference on Chemistry and Chemical Engineering Research and Development in Chemistry (RDChem2018MN)), Mongolia, June 2018

Linear Phosphazene Polymers: Their Synthesis Using An Initiator Based On Carborane Anion [HCB11H5Br6]- and N-Silylated Phosphazene Cation [Et3Si(N3P3Cl6)]+, Conference, National University of Mongolia (International Conference "Minerals and Materials Chemistry, Engineering-Mongolia), Mongolia, September 2011

The Use of Boron in the Treatment of Cancer, Seminar, Ministry of Education, Chairman of the Board of Education (2011 International Year of Chemistry Events), Turkey, April 2011

The Relationship between 31P-NMR Chemical Shifts and Endocyclic and Exocyclic NPN Bond Angles in Cyclic Phosphazene Derivatives, Conference, National University of Mongolia (Second International Symposium in Chemistry "Key Issues in Chemistry and Environmental Problems-2006), Mongolia, September 2006

Scholarships

TUBITAK 2219 International Postdoctoral Research Scholarship, TUBITAK, 2007 - 2008

TUBITAK Munir Birsal Foundation Ph.D Scholarship, TUBITAK, 1999 - 2003

M.Sc Scholarship of the Scientific and Technical Research Council of Turkey (TUBITAK), TUBITAK, 1996 - 1998