

## Prof. ZELİHA HAYVALI

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAF-3340-2020

ScopusID: 6603361225

Yoksis Researcher ID: 9560

### Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1992 - 1997

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 1989 - 1992

Undergraduate, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey 1983 - 1988

### Dissertations

Doctorate, Bazı bis (taç) eterlerin sentezi, kompleksleri ve yapılarının incelenmesi, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Dr), 1997

Postgraduate, 2-hidroksi-1-naftaldehitin primer aminlerle schiff bazlarının sentezi, bazlık sabitlerinin tayini ve bazı geçiş metal komplekslerinin hazırlanması, Ankara University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 1992

### Research Areas

Chemistry, Inorganic Chemistry, Inorganic Ring Compounds, Coordination Chemistry, Natural Sciences

### Academic Titles / Tasks

Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2012 - Continues

Associate Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2006 - 2012

Assistant Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2005 - 2010

### Courses

KİM117 Temel Kimya, Undergraduate, 2015 - 2016

KİM423 KOORDİNASYON KİMYASI, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007

813504 KOORDİNASYON KİMYASI, Postgraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008

KİM109 TEMEL KİMYA LABORATUARI, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010

KİM 118 Temel Kimya, Undergraduate, 2014 - 2015

KİM124 ANORGANİK KİMYA, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009  
KİM440 ÖZEL KONU, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009  
KİM201 TEMEL KİMYA, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013  
KİM152 TEMEL KİMYA LABORATUARI, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011  
KİM354 ANORGANİK KİMYA LABORATUARI, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007  
813504 Koordinasyon Kimyası, Doctorate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009  
Kim202 Temel Kimya, Undergraduate, 2013 - 2014, 2012 - 2013  
813526 Anorganik Halkalı Bileşikler, Postgraduate, 2010 - 2011, 2009 - 2010, 2008 - 2009  
813507 Endüstriyel Anorganik Kimya, Postgraduate, 2010 - 2011, 2009 - 2010

## Advising Theses

HAYVALI Z., Synthesis and investigation of heterocyclic group containing new crown ether ligands and complexes, Doctorate, S.KOÇOĞLU(Student), 2018  
HAYVALI Z., The syntheses and characterization of new crown ether ligand and complexes and investigation of metal selectivity, Doctorate, D.ŞAHİN(Student), 2018  
HAYVALI Z., Yeni Çift Kollu Crown Eter Ligand ve Komplekslerinin Sentezi ve Yapılarının Aydınlatılması, Postgraduate, Ö.ŞENER(Student), 2015  
HAYVALI Z., Aldehit grubu bulunduran crown eterlerin sentezi, kondensasyon reaksiyonları ve kompleksleri, Postgraduate, P.KÖKSAL(Student), 2011  
HAYVALI Z., Yeni 4-siyanobenziloksibenzaldehit türevleri ile 4-aminoantipirin ve 4'-aminobenzo-15-taç-5'in kondensasyon reaksiyonları ve sentezlenen taç eterlerin alkali metal, Postgraduate, H.GÜLER(Student), 2011  
HAYVALI Z., 4',5'-Bis(Bromometil)benzo-15-crown-5 çıkış bileşiği ile yeni crown eter ligand ve komplekslerinin sentezi ve yapılarının aydınlatılması, D.ŞAHİN(Student), 2011  
HAYVALI Z., 4',5'-bis(bromometil)benzo15-crown-5 çıkış bileşiği ile yeni crown eter ligand ve komplekslerin sentezi ve yapılarının aydınlatılması, Postgraduate, D.ŞAHİN(Student), 2011  
HAYVALI Z., Benzo-15-taç-5 bileşiği içeren yeni ligand ve komplekslerin sentezi ve yapılarının aydınlatılması, Postgraduate, O.ŞAHİN(Student), 2011  
HAYVALI Z., 4'-formilbenzo-15-crown-5 türevlerinin ve komplekslerinin sentezi, Postgraduate, D.YARDIMCI(Student), 2007  
HAYVALI Z., 4'-FORMİLBENZO-15-TAÇ-5 TÜREVLERİNİN VE KOMPLEKSLERİNİN SENTEZİ, D.YARDIMCI(Student), 2007

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

- Synthesis, antimicrobial and thermal studies of nitropyridine-substituted double armed benzo-15-crown-5 ligands; alkali (Na<sup>+</sup> and K<sup>+</sup>) and transition metal (Ag<sup>+</sup>) complexes; reduction of nitro compounds**  
Kocoglu S., Hayvali Z., Ogutcu H., Atakol O.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.102, no.9-10, pp.763-780, 2022 (SCI-Expanded)
- A polydentate ligand based on 2,2'-dipyridylamine unit linked benzo-15-crown-5; alkali and transition metal complexes; photoresponsive ligand; antimicrobial evaluation against pathogenic microorganisms**

Kocoglu S., HAYVALI Z., Ogutcu H.

TRANSITION METAL CHEMISTRY, vol.46, no.7, pp.509-522, 2021 (SCI-Expanded)

- III. **Synthesis, characterization, and antimicrobial activities of novel double-armed benzo-15-crown-5 and their sodium and potassium complexes**  
Sener Cemaloglu O., Ogutcu H., HAYVALI Z.  
JOURNAL OF CHEMICAL RESEARCH, vol.45, no.1-2, pp.116-124, 2020 (SCI-Expanded)
- IV. **Investigation of photophysical behaviours and antimicrobial activity of novel benzo-15-crown-5 substituted coumarin and chromone derivatives**  
Gul D. S., Ogutcu H., HAYVALI Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1204, 2020 (SCI-Expanded)
- V. **Photophysical and antimicrobial properties of new double-armed benzo-15-crown-5 ligands and complexes**  
Kocoglu S., Ogutcu H., HAYVALI Z.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.45, no.4, pp.2403-2427, 2019 (SCI-Expanded)
- VI. **Crystal Structure, DFT and Molecular Docking Studies of tris[N-(2-Furylmethyl)-3-Methoxy Salicylidenamino]Cobalt(III)**  
Zeyrek C. T., Hayvali Z., Unver H., Elmali A.  
JOURNAL OF STRUCTURAL CHEMISTRY, vol.60, no.4, pp.536-546, 2019 (SCI-Expanded)
- VII. **Synthesis, spectroscopic and spectrophotometric study of BODIPY appended crown ether sensor for ion detection**  
Sahin D., Yilmaz H., HAYVALI Z.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.42, no.7, pp.6337-6350, 2016 (SCI-Expanded)
- VIII. **New NO donor ligands and complexes containing furfuryl or crown ether moiety: Syntheses, crystal structures and tautomerism in ortho-hydroxy substituted compounds as studied by UV-vis spectrophotometry**  
Sahin D., Kocoglu S., Sener O., Senol C., DAL H., HÖKELEK T., HAYVALI Z.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1102, pp.302-313, 2015 (SCI-Expanded)
- IX. **Spectroscopy studies, crystal structure and DFT calculations of 4-4{E-[(2-Fluorophenyl)imino]methyl}-2-methoxyphenol**  
Alasalvar C., SOYLU M. S., HAYVALI Z., ÜNVER H.  
OPTICS AND SPECTROSCOPY, vol.118, no.1, pp.73-83, 2015 (SCI-Expanded)
- X. **Novel bis-crown ethers and their sodium complexes as antimicrobial agent: synthesis and spectroscopic characterizations**  
HAYVALI Z., Guler H., Ogutcu H., SARI N.  
MEDICINAL CHEMISTRY RESEARCH, vol.23, no.8, pp.3652-3661, 2014 (SCI-Expanded)
- XI. **Double-Armed Benzo-15-crown-5 Ligands and Complexes and Single Crystal Structure Determination**  
Sahin D., SÜZEN Y., HAYVALI Z.  
HETEROATOM CHEMISTRY, vol.25, no.1, pp.43-54, 2014 (SCI-Expanded)
- XII. **Syntheses and spectroscopic characterization of double-armed benzo-15-crown-5 derivatives and their sodium and potassium complexes**  
HAYVALI Z., Koksall P.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.76, no.3-4, pp.369-378, 2013 (SCI-Expanded)
- XIII. **Synthesis and Spectroscopic Characterization of New Double-Armed Benzo-15-Crown-5 Derivatives and Their Sodium Complexes**  
Sahin O., Hayvalbox Z.  
HETEROATOM CHEMISTRY, vol.24, no.2, pp.100-109, 2013 (SCI-Expanded)
- XIV. **Syntheses, spectroscopic characterization and metal ion binding properties of benzo-15-crown-5 derivatives and their sodium and nickel(II) complexes**  
Sahin D., HAYVALI Z.

Journal of Inclusion Phenomena and Macrocyclic Chemistry, vol.72, no.3-4, pp.289-297, 2012 (SCI-Expanded)

- XV. **Phosphorus-nitrogen compounds. Part 23: Syntheses, structural investigations, biological activities, and DNA interactions of new N/O spirocyclotriphosphazenes**  
ASMAFİLİZ N., Kilic Z., HAYVALI Z., AÇIK L., HÖKELEK T., DAL H., Oner Y.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.86, pp.214-223, 2012 (SCI-Expanded)
- XVI. **Syntheses, spectroscopic and structural characterizations and metal ion binding properties of Schiff bases derived from 4'-aminobenzo-15-crown-5**  
Güler H., HAYVALI Z., Dal H., HÖKELEK T.  
Polyhedron, vol.31, no.1, pp.688-696, 2012 (SCI-Expanded)
- XVII. **Syntheses, characterizations and structures of NO donor Schiff base ligands and nickel(II) and copper(II) complexes**  
Enol C., HAYVALI Z., Dal H., HÖKELEK T.  
Journal of Molecular Structure, vol.997, no.1-3, pp.53-59, 2011 (SCI-Expanded)
- XVIII. **The synthesis, molecular structure, FT-IR and XRD spectroscopic investigation of 4-[(2-[(2-furylmethyl)imino]methyl)-4-methoxyphenoxy)methyl] benzonitrile: A comparative DFT study**  
Alver Ö., HAYVALI Z., Güler H., Dal H., Enyel M.  
Journal of Molecular Structure, vol.991, no.1-3, pp.12-17, 2011 (SCI-Expanded)
- XIX. **Synthesis, spectroscopic, spectrophotometric and crystallographic investigations of 4-[(1E)-(3,4-dimethoxyphenyl)methylene]amino}-1,5-dimethyl-2-phenyl-1,2-dihydro-3H-pyrazol-3-one and 4-[(1E)-(2-hydroxy-5-methoxyphenyl)methylene]amino}-1,5-dimethyl-2-phenyl-1,2-dihydro-3H-pyrazol-3-one**  
HAYVALI Z., ÜNVER H., Svoboda I.  
Acta Chimica Slovenica, vol.57, no.3, pp.643-650, 2010 (SCI-Expanded)
- XX. **Syntheses, spectroscopic and crystallographic characterizations of 4-nitrobenzyloxy derivatives and benzofurans from ortho-substituted benzaldehydes and 4-nitrobenzyl bromide**  
HAYVALI Z., Dal H., Köksal P., Şahin D., HÖKELEK T.  
Structural Chemistry, vol.21, no.4, pp.837-845, 2010 (SCI-Expanded)
- XXI. **Synthesis, spectroscopic studies and structures of square-planar nickel(II) and copper(II) complexes derived from 2-[(Z)-[furan-2-ylmethyl]imino]methyl}-6-methoxyphenol**  
ÜNVER H., HAYVALI Z.  
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.75, no.2, pp.782-788, 2010 (SCI-Expanded)
- XXII. **Preparation and spectroscopic characterization of iron(II) and copper(II) complexes of a functionalized crown ether**  
HAYVALI Z.  
Transition Metal Chemistry, vol.34, no.1, pp.97-101, 2009 (SCI-Expanded)
- XXIII. **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)
- XXIV. **Synthesis and spectroscopic characterization of asymmetric Schiff bases derived from 4'-formylbenzo-15-crown-5 containing recognition sites for alkali and transition metal guest cations**  
HAYVALI Z., Yardimci D.  
TRANSITION METAL CHEMISTRY, vol.33, no.4, pp.421-429, 2008 (SCI-Expanded)
- XXV. **Synthesis and characterization of new mono- and bis-schiff bases**  
Hayvali Z.  
ASIAN JOURNAL OF CHEMISTRY, vol.19, no.1, pp.579-588, 2007 (SCI-Expanded)
- XXVI. **Crystal Structure Of 2-[2-(-Aminophenoxy) Ethoxy]-N-[(1e)-2,3,5,6,8,9,11,12-Octahydro-1,4,7,10,13-Benzopentaoxacyclopentadecin-15-Ylmethylene]Aniline**  
Ozturk A., Hokelek T., HAYVALI Z., Dal H., Kilic Z.

- ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, vol.63, 2007 (SCI-Expanded)
- XXVII. **Synthesis and spectroscopic characterization of new Schiff bases containing the benzo-15-crown-5 moiety**  
Hayvali Z., Hayvali M., Dal H.  
MOLECULES, vol.9, no.10, pp.860-866, 2004 (SCI-Expanded)
- XXVIII. **The synthesis of some new mono and bis(crown ether)s and their sodium complexes. Tautomerism in o-hydroxybenzo-15-crown-5 Schiff bases as studied by UV-VIS spectrophotometry**  
Hayvali M., Hayvali Z.  
SYNTHESIS AND REACTIVITY IN INORGANIC AND METAL-ORGANIC CHEMISTRY, vol.34, no.4, pp.713-732, 2004 (SCI-Expanded)
- XXIX. **Synthesis and spectral investigation of some new crown ether ligands**  
Hayvali Z.  
ASIAN JOURNAL OF CHEMISTRY, vol.15, no.2, pp.877-883, 2003 (SCI-Expanded)
- XXX. **New benzo-15-crown-5 ethers featuring salicylic Schiff base substitutions - Synthesis, complexes and structural study**  
Hayvali Z., Hayvali M., Kilic Z., Hokelek T., Weber E.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.45, no.3-4, pp.285-294, 2003 (SCI-Expanded)
- XXXI. **Crystal structure of 1,5-dimethyl-2-phenyl-1,2-dihydro-3H-pyrazol-3-one-4[(1E)-(aminomethylidanyl)]-5'-hydroxy-benzo-15-crown-5**  
Hokelek T., Kilic Z., Hayvali Z.  
ANALYTICAL SCIENCES, vol.18, no.4, pp.495-496, 2002 (SCI-Expanded)
- XXXII. **Synthesis, complex formation, spectral and crystallographic investigations of new crown ethers containing recognition site for sodium. Part V**  
Hayvali Z., Hayvali M., Kilic Z., Hokelek T.  
JOURNAL OF MOLECULAR STRUCTURE, vol.597, no.1-3, pp.223-234, 2001 (SCI-Expanded)
- XXXIII. **Schiff bases and their complexes with metal ions, IV - Synthesis, complex formation and spectral investigation of new tritopic bis(crown ether) compounds containing recognition sites for sodium and nickel guest cations**  
Hayvali Z., Gunduz N., Kilic Z., Weber E.  
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION B-A JOURNAL OF CHEMICAL SCIENCES, vol.55, no.10, pp.975-981, 2000 (SCI-Expanded)
- XXXIV. **Synthesis and characterization of new bis(crown ether)s of Schiff base type containing recognition sites for sodium and nickel guest cations**  
Hayvali Z., Gunduz N., Kilic Z., Weber E.  
JOURNAL FUR PRAKTISCHE CHEMIE-CHEMIKER-ZEITUNG, vol.341, no.6, pp.568-573, 1999 (SCI-Expanded)
- XXXV. **Schiff bases and their complexes with metal ions .2. Structures of N-n-butyl-2-hydroxy-1-naphthaldimine and bis[N-n-pentyl-2-hydroxy-1-naphthaldiminato]nickel(II)**  
Hokelek T., Gunduz N., Hayvali Z., Kilic Z.  
JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.25, no.12, pp.831-836, 1995 (SCI-Expanded)
- XXXVI. **SCHIFF-BASES AND THEIR COMPLEXES WITH METAL-IONS .1. 2-HYDROXY-N-N-PROPYL-1-NAPHTHALDIMINE (1) AND BIS(2-HYDROXY-KAPPA-O-N-N-PROPYL-1-NAPHTHALDIMINATO-KAPPA-N)NICKEL(II) (2)**  
HOKELEK T., GUNDUZ N., HAYVALI Z., KILIC Z.  
ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, vol.51, pp.880-884, 1995 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Antimicrobial Activities of the Coumarin substituted Crown Ether Ligands and Alkali Metal**

## Complexes

ŞAHİN GÜL D., HAYVALI Z., ÖĞÜTÇÜ H.

1. International Balkan Chemistry Congress, 17 - 20 September 2018

- II. **Ion Extraction Capability Studies of New Benzo-15-Crown-5 Compounds with Alkali and Transition Metal Ions**  
ŞAHİN GÜL D., HAYVALI Z.  
International, Agricultural, Biological Life Science Conference, 2 - 05 September 2018
- III. **Synthesis, Characterization and Antimicrobial Activities of New Crown Ether Compounds**  
KOÇOĞLU S., öğütçü h., HAYVALI Z., güler m.  
Ancon-International Congress on Chemistry and Materials Science, 5 - 07 October 2017
- IV. **Crystal Structure, Density Functional Modelling and Molecular Docking Studies of tris (N-(2-furylmethyl)-3-methoxy-salicylidenaminato)cobalt(III)**  
Zeyrek C. T., HAYVALI Z., ÜNVER H., ELMALI A.  
International congress on Chemistry and Materials Science, 5 - 07 October 2017
- V. **A Study on Spectroscopic (FT-IR and NMR) Properties and DFT Computations of N-[[4-(diphenylamino)phenyl]methylene]-2,3,5,6,8,9,11,12-octahydro-1,4,7,10,13-benzopentaoxacyclopentadecin-15-amine**  
ALPASLAN G., ŞENEL Ö., SEVİNÇ G., HAYVALI Z., ÜNVER H.  
III.International Turkish Congress on Molecular Spectroscopy, 26 - 29 August 2017
- VI. **Synthesis and Spectroscopic Analysis of Pyridine Substituted Crown Ether Ligand and Their Na , K and Ag Complexes**  
KOÇOĞLU S., HAYVALI Z.  
Euroanalysis 2017, Stockholm, Sweden, 28 August - 01 September 2017
- VII. **Synthesis and Characterizations of New Tris-Crown Ethers**  
ŞENER Ö., HAYVALI Z.  
International Conference on Thermal and Fluid Engineering, 3 - 05 July 2017
- VIII. **Kromon Süstitüe Crown Eter Bileşiklerinin Sodyum ve Potasyum Kompleksleri**  
ŞAHİN GÜL D., HAYVALI Z.  
6. Ulusal Anorganik Kimya Kongresi, Turkey, 18 May 2017 - 21 September 2019
- IX. **ANTIMICROBIAL ACTIVITIES AGAINST A PATHOGENIC STRAINS OF NEW 3-HYDROXYPYRIDINE SUBSTITUTED CROWN ETHER LIGAND AND COMPLEXES**  
KOÇOĞLU S., Öğütçü H., HAYVALI Z., Kantar F.  
Uluslararası DNA Günü ve Genom Kongresi, Kırşehir, Turkey, 24 - 28 April 2017
- X. **Antimicrobial Activities Against a Pathogenic Strains of New 3- Hydroxypyridine Substituted Crown Ether Ligand and Complexes**  
KOÇOĞLU S., ÖĞÜTÇÜ H., HAYVALI Z., KANTAR F.  
International DNA Day and Genome Congress, 24 - 28 April 2017
- XI. **Synthesis and Investigation of Antimicrobial Activity Against A Pathogenic Strains of New Crown Ethers**  
ÖĞÜTÇÜ H., ŞENER Ö., HAYVALI Z., KANTAR F.  
International Conference on Biological Sciences, 21 - 23 October 2016
- XII. **SYNTHESIS AND CHARACTERIZATION OF NEW DOUBLE ARMED BENZO 15 CROWN 5 LIGANDS AND ALKALI METAL COMPLEXES**  
KOÇOĞLU S., HAYVALI Z.  
11TH INORGANIC CHEMISTRY CONFERENCE, 7 - 08 October 2016
- XIII. **SYNTHESIS OF COUMARINE SUBSTITUTED CROWN ETHER COMPOUNDS AND INVESTIGATION OF FLUOROIONOPHORE BEHAVIOURS**  
ŞAHİN D., HAYVALI Z.  
28 th National Chemistry Congress, Turkey, 15 - 21 August 2016
- XIV. **Crown Eter İçeren BODIPY Bileşiğinin Sentezi Spektroskopik ve Sspektrofotometrik Özelliklerinin İncelenmes**

ŞAHİN D., Yılmaz H., HAYVALI Z., HAYVALI M.

27. Ulusal Kimya Kongresi, Turkey, 23 - 28 August 2015

XV. **BENZO 15 CROWN 5 CONTAINING NO DONOR LIGANDS AND COMPLEXES SYNTHESIS AND TAUTOMERISM ortho HYDROXY SUBSTITUTED COMPOUNDS**

HAYVALI Z., Cemal Ş., ŞAHİN D., Öznur Ş., KOÇOĞLU S.

All In Once Conferences (International Conference on New Trends in Chemistry (ICNTC 2015), 24 - 28 March 2015

XVI. **Syntheses Biological Activities and DNA Interactions of New N O Spirocyclotriphosphazenes**

AÇIK L., ASMAFİLİZ N., HAYVALI Z., KILIÇ Z., Öner Y.

13th International Congress of the Society for Ethnopharmacology, 2 - 06 September 2012

XVII. **Syntheses Structural Investigations Biological Activities and DNA Interactions of New Pyrrolidino N O Spirocyclic Phosphazene Derivatives**

ASMAFİLİZ N., KILIÇ Z., HAYVALI Z., AÇIK L., Öner Y., HÖKELEK T., DAL H.

The 11th International Chemistry Conference and Exhibition in Africa" "The role of Chemistry in Development in Africa, 20 - 23 November 2010

XVIII. **2 2 1 2 fenilenbis metilenoksi dibenzaldehit ile Bishidroksifosfonat Türevlerinin Hazırlanması ve Spektroskopik Metotlarla Yapılarının İncelenmesi**

ACAR N., HAYVALI Z., YILMAZ H.

21. Ulusal Kimya Kongresi, Malatya, Turkey, 23 - 27 August 2007

## Metrics

Publication: 56

Citation (WoS): 589

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