

## Prof. Nebahat DEMİRHAN

### Personal Information

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### Research Areas

Chemistry, Inorganic Chemistry, Coordination Chemistry, Natural Sciences

### Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2004 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 1997 - 2004

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 1997 - 1997

Research Assistant PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 1988 - 1997

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

- I. **Extraction of metal ions using polymer inclusion membranes containing 1,10-phenanthroline and PEG**  
MANZAK A., Yildiz Y., Sezer M., DEMİRHAN N.  
CHEMICAL PAPERS, vol.76, pp.2907-2915, 2022 (SCI-Expanded)
- II. **Synthesis, spectral and thermal characterization, biological activity of a new amino acide ester containing substituted salicylaldimine Schiff base ligand and its Ru(II)bipyridyl complex**  
Yorur-Goreci C., Altas-Puntar N., Toraman A., DEMİRHAN N.  
MAIN GROUP CHEMISTRY, vol.20, no.2, pp.193-202, 2021 (SCI-Expanded)
- III. **A novel water-soluble and self-doped conducting hybrid copolymer: poly(4-oxybenzenesulfonic acid) phosphazene-g-poly(3,4-ethylenedioxythiophene)**  
Celebi E. B., DEMİRHAN N., Hacivelioglu F.  
JOURNAL OF MATERIALS CHEMISTRY C, vol.6, no.11, pp.2672-2677, 2018 (SCI-Expanded)
- IV. **Synthesis, biological activity of a new long-chain di-Schiff base ligand and Ru(II) complex in solvent-free conditions**  
DEMİRHAN N., Peksel A., ELMALI F., Eren M.  
MAIN GROUP CHEMISTRY, vol.16, pp.255-266, 2017 (SCI-Expanded)
- V. **Synthesis and Characterization of a New Cyclophosphazene and Its Ruthenium Complex Derived from 1,10-Phenanthroline-5,6-diol**  
Karaoglan G., ERDEN İ., DEMİRHAN N.  
ASIAN JOURNAL OF CHEMISTRY, vol.25, no.9, pp.4925-4928, 2013 (SCI-Expanded)
- VI. **Synthesis of Pyridyloxycyclophosphazene and its Cu(I) Complex**  
Boncukcu E., Elmali F., DEMİRHAN N.  
MAIN GROUP CHEMISTRY, vol.12, no.4, pp.323-329, 2013 (SCI-Expanded)
- VII. **2-[(E)-(1,10-Phenanthroline-5-yl)iminomethyl]phenol methanol monosolvate**

DEMİRHAN N.

ACTA CRYSTALLOGRAPHICA SECTION A, 2012 (SCI-Expanded)

- VIII. **Synthesis, characterization and biological activity of a new long-chain imine ligand and some transition metal complexes in solvent-free conditions**  
Elmali F., Sutay B., Ozbek B., DEMİRHAN N.  
MAIN GROUP CHEMISTRY, vol.11, no.3, pp.217-222, 2012 (SCI-Expanded)
- IX. **The Synthesis, Spectroscopic, Fluorescence, and Thermal Properties of a 1,10-phenanthroline Containing Derivative of Phenoxy-cyclotriphosphazene and its Ru(II) Complex**  
Kecin I., Elmali F., DEMİRHAN N.  
SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.41, no.1, pp.1-7, 2011 (SCI-Expanded)
- X. **Synthesis and characterization of new thiourea derivatives substituted 1,10-phenanthroline and crown ether**  
Elmali F., Avciata U., DEMİRHAN N.  
MAIN GROUP CHEMISTRY, vol.10, no.1, pp.17-23, 2011 (SCI-Expanded)
- XI. **Synthesis and characterization of new D-pi-D type Schiff base ligands and its complexes with Cobalt(II), Ruthenium(II)**  
ERDEN İ., DEMİRHAN N., Avciata U.  
RUSSIAN JOURNAL OF INORGANIC CHEMISTRY, vol.55, no.12, pp.1903-1908, 2010 (SCI-Expanded)
- XII. **SYNTHESIS AND CHARACTERIZATION OF 5-SALICYLIDENEIMINO-1,10-PHENANTHROLINE AND ITS Ni(II), Co(II) COMPLEXES**  
Elmali F., DEMİRHAN N., Duman H., Avciata U.  
REVIEWS IN INORGANIC CHEMISTRY, vol.29, no.4, pp.241-253, 2009 (SCI-Expanded)
- XIII. **Synthesis and characterisation of D-pi-D type Schiff base ligands derived from fluorene and 1,10-phenanthroline and its complexes with ruthenium(II)**  
ELMALI F., ERDEN İ., DEMİRHAN N., Avciata U.  
JOURNAL OF CHEMICAL RESEARCH, no.2, pp.90-92, 2009 (SCI-Expanded)
- XIV. **Synthesis in solvent-free conditions, characterization and biological activity of a new Schiff-base ligand and its Cu(II) complex**  
ELMALI F., PEKSEL A., DEMİRHAN N.  
JOURNAL OF COORDINATION CHEMISTRY, vol.62, no.15, pp.2548-2555, 2009 (SCI-Expanded)
- XV. **Synthesis and characterisation of D-n-D type Schiff base ligands derived from fluorene and 1,10-phenanthroline and its complexes with ruthenium(II)**  
Elmali F. T., ERDEN İ., DEMİRHAN N., AVCIATA U.  
Journal of Chemical Research, no.2, pp.90-92, 2009 (SCI-Expanded)
- XVI. **Synthesis and characterization of a new fluorene ligand and its complexes with cobalt(II), copper(II), and ruthenium(II)**  
ERDEN İ., ERDOĞMUŞ A., DEMİRHAN N., Avciata U.  
TRANSITION METAL CHEMISTRY, vol.33, no.4, pp.439-442, 2008 (SCI-Expanded)
- XVII. **Synthesis and characterization of a Ni(II) and Cu(I) complexes of Schiff base derived from salicylaldehyde**  
DEMİRHAN N., KARAOĞLAN G., AYDIN S.  
ASIAN JOURNAL OF CHEMISTRY, vol.20, no.3, pp.2367-2372, 2008 (SCI-Expanded)
- XVIII. **Synthesis of a new thiourea derivative substituted 5,6-diamino-1,10-phenanthroline and crown ether and its complexes with Copper(II), Nickel(II) and Cobalt(II)**  
ELMALI F., AVCIATA U., Demirhan N., Guel A.  
POLISH JOURNAL OF CHEMISTRY, vol.81, no.10, pp.1725-1734, 2007 (SCI-Expanded)
- XIX. **Synthesis and characterization of a new Schiff base ligand derived from benzo-15-crown-5 and its complexes with cobalt(II), nickel(II) and copper(II)**  
Erden I., Demirhan N., Avciata U.  
INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL &

ANALYTICAL CHEMISTRY, vol.45, no.6, pp.1395-1399, 2006 (SCI-Expanded)

- XX. **Synthesis and characterization of a new imidazole ligand and its complexes with cobalt(II), nickel(II) and copper(II)**  
Erden I., Demirhan N., Avciata U.  
SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.36, no.7, pp.559-562, 2006 (SCI-Expanded)
- XXI. **Synthesis and characterisation of 5,6-bis(salicylideneimino)-1,10-phenanthroline and its trinuclear complexes**  
Demirhan N., AVCIATA U., GUL A.  
INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY, vol.44, no.4, pp.729-732, 2005 (SCI-Expanded)
- XXII. **Synthesis and characterization of a new vic-dioxime ligand and its complexes with cobalt(II), nickel(II) and copper(II)**  
Demirhan N., Erden I., Avciata U.  
INDIAN JOURNAL OF CHEMISTRY SECTION A-INORGANIC BIO-INORGANIC PHYSICAL THEORETICAL & ANALYTICAL CHEMISTRY, vol.43, no.4, pp.782-785, 2004 (SCI-Expanded)
- XXIII. **Tetra-mu-nitroaminato-bis[aquacopper(II)]**  
OZTURK S., AKKURT M., Demirhan N., KAHVECI B., FUN H., OCAL N.  
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.59, 2003 (SCI-Expanded)
- XXIV. **Spectrophotometric determination of iron(II) with 5-nitro-6-amino-1,10-phenanthroline**  
Demirhan N., ELMALI F.  
TURKISH JOURNAL OF CHEMISTRY, vol.27, no.3, pp.315-321, 2003 (SCI-Expanded)
- XXV. **Synthesis and characterization of 5,6-diamino-1,10-phenanthroline substituted anti-dichloroglyoxime and its complexes with cobalt(II), nickel(II), and copper(II)**  
Demirhan N., ERDEN I., AVCIATA U.  
SYNTHESIS AND REACTIVITY IN INORGANIC AND METAL-ORGANIC CHEMISTRY, vol.32, no.8, pp.1361-1372, 2002 (SCI-Expanded)
- XXVI. **Synthesis of N,N'-bis[(benzo-15-crown-5)-oilylmethyl]diaminoglyoxime and its metal complexes**  
AVCIATA U., Demirhan N., Gul A.  
SYNTHESIS AND REACTIVITY IN INORGANIC AND METAL-ORGANIC CHEMISTRY, vol.29, no.5, pp.827-840, 1999 (SCI-Expanded)
- XXVII. **Synthesis and characterization of a crown ether substituted salicylaldehyde and its complexes with copper(II), cobalt(II), nickel(II), and uranyl(VI)**  
AVCIATA U., Demirhan N., GUL A.  
MONATSHEFTE FUR CHEMIE, vol.129, no.1, pp.9-18, 1998 (SCI-Expanded)
- XXVIII. **Synthesis of 4'-acetyl(benzo-15-crown-5)-oxime and its complexes with copper(II), nickel(II), cobalt(II) and uranyl(VI)**  
AVCIATA U., DEMIRHAN N., Bozdogan A. E.  
SYNTHESIS AND REACTIVITY IN INORGANIC AND METAL-ORGANIC CHEMISTRY, vol.28, no.3, pp.393-403, 1998 (SCI-Expanded)
- XXIX. **Synthesis of bis[(4,10-diaza-4,10-ditosyl-benzo-12-Crown-4) 4'-yl] diaminoglyoxime and its complexes**  
AVCIATA U., Demirhan N., TEKER M.  
JOURNAL OF INCLUSION PHENOMENA AND MOLECULAR RECOGNITION IN CHEMISTRY, vol.26, pp.27-38, 1996 (SCI-Expanded)

## Articles Published in Other Journals

1. **Synthesis of a new phenoxyphosphazene derivative Schiff base and its Ru(II), Co(III) complexes**

Demirhan N., Nergis K.

MAIN GROUP CHEMISTRY, vol.22, no.1, pp.167-176, 2023 (Scopus)

**II. Aminoliz Reaksiyonu İle 5-Amino-1,10-fenantrolinden Yeni Bir Aminofosfazen Sentezi Ve Karakterizasyonu**

Tüncel Elmalı F., Demirhan N., Ataş R.

Sigma, vol.25, no.1, pp.27-31, 2007 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

**I. FENOKSİ FOSFAZEN TÜREVİ SCHIFF BAZI GEÇİŞ METAL KOMPLEKSLERİNİN SENTEZİ KARAKTERİZASYONU**

Demirhan N., Nergis K.

31. Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019, pp.2118-2119

**II. FENOKSİ FOSFAZEN TÜREVİ YENİ BİR SCHIFF BAZI LİGANDI SENTEZİ ve KARAKTERİZASYONU**

Demirhan N., Nergis K.

^1. Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019, pp.2118-2119

**III. The Easy Soluble 1 10 phenanthroline Schiff base its Ru II Complex and Fluorescence Properties TÜNCEL ELMALI F., DEMİRHAN N., ERDOĞMUŞ A.**

MOLCHEM, 19 - 21 December 2014

**IV. Glisin Metil Ester türevi Ru(II) Kompleksinin Spektral ve Biyolojik Özellikleri**

Yörür Göreci Ç., Ataş N., Toraman A., Demirhan N.

2.Ulusal Organik Kimya Kongresi, Ankara, Turkey, 24 September 2014, pp.106

**V. Synthesis Characterization and Fluorescence Properties of a Schiff Base Derivative and its Ru II Complex**

DEMİRHAN N., TÜNCEL ELMALI F., ERDOĞMUŞ A.

MOLCHEM, 19 - 21 January 2014

**VI. Synthesis and Characterization of N-[1,10-Phenanthroline]-N '-[(Benzo-15-Crown-5)yl] Thiourea and Its Complex with Copper(I)**

ELMALI F. T., Avciata U., DEMİRHAN N., Guel A.

9th Eurasia Conference on Chemical Sciences, Antalya, Turkey, 9 - 13 September 2006, pp.367-369

## Supported Projects

DEMİRHAN N., YÖRÜR GÖRECİ Ç., Project Supported by Higher Education Institutions, Yeni Schiff Bazı Ligandlarının ve Ru(II), Au(III) Komplekslerinin Solvent Kullanılmadan Sentezi, Karakterizasyonu ve Biyolojik Aktivitelerinin İncelenmesi, 2015 - 2018

DEMİRHAN N., Other International Funding Programs, Uzu zincirli N- alkil ve fenoksi amin türevi trimerik ve lineer polimerik fosfazen türevlerinin ve Ru(II) komplekslerinin sentezi ve karakterizasyonu, 2012 - 2015

Demirhan N., Keser Karaoğlan G., Erden İ., Tüncel Elmalı F., Erdoğan A., Kecin İ., Project Supported by Higher Education Institutions, 1,10-Fenatrolin Türevi Bazı Siklik ve Polimerik Fosfazenlerin ve Fe (II) Komplekslerinin Sentezi, Karakterizasyonu, 2008 - 2010

DEMİRHAN N., Project Supported by Higher Education Institutions, 1,10-Fenatrolin Türevi Bazı Siklik ve Polimerik Fosfazenlerin ve Fe(II) Komplekslerinin Sentezi, Karakterizasyonu, 2008 - 2010

Avciata U., Keskin B., Erdoğan A., Erden İ., Demiryürek B., Demirhan N., Avciata O., Selimoğlu E., Tuncer S., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Demir ve Saç Yüzeylerinin Korunması Amacıyla, Polimer Korumalı ve Çevre Kirliliği Yapmayan Organik Yapılı Aktif Maddeler Yardımıyla Pasın (Fe<sub>2</sub>O<sub>3</sub>) Atmosferden Etkilenmeyen Magnetite (Fe<sub>3</sub>O<sub>4</sub>) Dönüştürülmesi, 2004 - 2007

Keser Karaoğlan G., Demirhan N., Avciata U., Erden İ., Tüncel Elmalı F., Project Supported by Higher Education Institutions, 1,10-Fenatrolinden Türetilen Ligantların ve Metal Komplekslerinin Sentezi, Karakterizasyonu, Elde Edilen

Bazı 1,10-Fenatrolin Türevleri ile Spektrofotometrik Olarak Demir(II) Miktar Tayini, 2000 - 2002

## **Metrics**

Publication: 49

Citation (WoS): 107

Citation (Scopus): 152

H-Index (WoS): 6

H-Index (Scopus): 7

## **Non Academic Experience**

Özel Moda Lisesi