

Prof. Fikriye TÜNCCEL ELMALI

Personal Information

Office Phone: [+90 021 238 3707](tel:+900212383707) Extension: 04167

Email: ftuncel@yildiz.edu.tr

Web: <https://avesis.yildiz.edu.tr/ftuncel>

Education Information

Doctorate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, Turkey 1995 - 2005

Postgraduate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, Turkey 1992 - 1995

Associate Degree, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, Turkey 1987 - 1991

Dissertations

Doctorate, 1,10-Fenantrolin Esaslı Polifonksiyonel Ligandların Sentezi ve Metal Komplekslerinin İncelenmesi, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2005

Postgraduate, 'Yeni Bir Altın-Civa Pasta Elektrodunun Geliştirilmesi', Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 1995

Research Areas

Natural Sciences

Courses

Anorganik Kimya 2, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2013 - 2014

Anorganik Kimya 1, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015

Bitirme Çalışması, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015, 2013 - 2014, 2012 - 2013

Fosfazen Kimyası, Doctorate, 2016 - 2017

İleri Anorganik Kimya, Postgraduate, 2016 - 2017

BODIPY Kimyası, Doctorate, 2016 - 2017

Genel Kimya 1, Undergraduate, 2015 - 2016

Advising Theses

Tüncel Elmalı F., İki Yeni Schiff Bazı ve Metal Komplekslerinin Sentezi, Karakterizasyonu, Postgraduate, A.Samer(Student), 2019

Published journal articles indexed by SCI, SSCI, and AHCI

1. Synthesis of phenanthroline substituted five-nuclear phthalocyanine zinc complex and exploring of

photochemical and sono-photochemical properties

Ünlü S., Elmalı F., Atmaca G. Y., ERDOĞMUŞ A.

Polyhedron, vol.250, 2024 (SCI-Expanded)

- II. **Metal complexes derived from tetradentate Schiff base ligands: Synthesis, spectroscopic analysis, thermogravimetric degradation and antimicrobial activities**
Hezam A., Ünlü S., Elmalı F.
Journal of Molecular Structure, vol.1293, 2023 (SCI-Expanded)
- III. **Improved singlet oxygen generation of axially ruthenium(II) complex substituted silicon(IV) phthalocyanine by sono-photochemical studies**
Atmaca G., Elmalı F., ERDOĞMUŞ A.
Journal of Molecular Structure, vol.1274, 2023 (SCI-Expanded)
- IV. **Comparing Singlet Oxygen Generation of Schiff Base Substituted Novel Silicon Phthalocyanines by Sono-photochemical and Photochemical Applications**
Ünlü S., Yaşa Atmaca G., Tüncel Elmalı F., Erdoğan A.
PHOTOCHEMISTRY AND PHOTOBIOLOGY, vol.2023, pp.1-20, 2023 (SCI-Expanded)
- V. **Synthesis of axially Schiff base new substituted silicon phthalocyanines and investigation of photochemical and sono-photochemical properties**
Ünlü S., Elmalı F., Atmaca G., ERDOĞMUŞ A.
Photodiagnosis and Photodynamic Therapy, vol.40, 2022 (SCI-Expanded)
- VI. **Synthesis, characterization and DNA binding properties of Schiff base derivatives and Ru(II) complexes**
Tüncel Elmalı F.
JOURNAL OF MOLECULAR STRUCTURE, pp.132900, 2022 (SCI-Expanded)
- VII. **Synthesis, biological activity of a new long-chain di-Schiff base ligand and Ru(II) complex in solvent-free conditions**
DEMİRHAN N., PEKSEL A., Elmalı F., Eren M.
MAIN GROUP CHEMISTRY, vol.16, no.4, pp.255-266, 2017 (SCI-Expanded)
- VIII. **Preconcentration and Determination of Iron, Nickel, Lead and Zinc after Solid Phase Extraction using 5-Aphen Functionalized poly(GMA-MMA-DVB) Microspheres**
ALPDOĞAN G., Yamak H., Zor S. D., Elmalı F.
CURRENT ANALYTICAL CHEMISTRY, vol.12, no.5, pp.500-509, 2016 (SCI-Expanded)
- IX. **Highly sensitive spectrophotometric methods for the determination, validation and thermogravimetric analysis of antiulcer drugs, nizatidine and ranitidine in pure and pharmaceutical preparations**
Ulu S. T., Elmalı F.
JOURNAL OF ANALYTICAL CHEMISTRY, vol.68, no.6, pp.495-500, 2013 (SCI-Expanded)
- X. **Synthesis of Pyridyloxycyclophosphazene and its Cu(I) Complex**
Boncukcu E., Elmalı F., DEMİRHAN N.
MAIN GROUP CHEMISTRY, vol.12, no.4, pp.323-329, 2013 (SCI-Expanded)
- XI. **Validated Spectrophotometric Method for the Determination, Spectroscopic Characterization and Thermal Structural Analysis of Duloxetine with 1,2-Naphthoquinone-4-Sulphonate**
Ulu S. T., Elmalı F.
OPTICS AND SPECTROSCOPY, vol.112, no.3, pp.431-437, 2012 (SCI-Expanded)
- XII. **Synthesis, characterization and biological activity of a new long-chain imine ligand and some transition metal complexes in solvent-free conditions**
Elmalı F., Sutay B., Ozbek B., DEMİRHAN N.
MAIN GROUP CHEMISTRY, vol.11, no.3, pp.217-222, 2012 (SCI-Expanded)
- XIII. **The Synthesis, Spectroscopic, Fluorescence, and Thermal Properties of a 1,10-phenanthroline Containing Derivative of Phenoxy-cyclo-triphosphazene and its Ru(II) Complex**
Kecin I., Elmalı F., DEMİRHAN N.
SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.41, no.1, pp.1-

7, 2011 (SCI-Expanded)

- XIV. **Synthesis and characterization of new thiourea derivatives substituted 1,10-phenanthroline and crown ether**
Elmalı F., Avciata U., DEMİRHAN N.
MAIN GROUP CHEMISTRY, vol.10, no.1, pp.17-23, 2011 (SCI-Expanded)
- XV. **Spectrophotometric method for the determination, validation, spectroscopic and thermal analysis of diphenhydramine in pharmaceutical preparation**
Ulu S. T., Elmalı F.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.77, no.1, pp.324-329, 2010 (SCI-Expanded)
- XVI. **SYNTHESIS AND CHARACTERIZATION OF 5-SALICYLIDENEIMINO-1,10-PHENANTHROLINE AND ITS Ni(II), Co(II) COMPLEXES**
Elmalı F., DEMİRHAN N., Duman H., Avciata U.
REVIEWS IN INORGANIC CHEMISTRY, vol.29, no.4, pp.241-253, 2009 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **UV-Second Derivative Spectrophotometric and Colorimetric Methods for the Determination, Validation and Thermogravimetric Analysis of New Oral Antidiabetic Pioglitazone in Pure and Pharmaceutical Preparations**
Ulu S. T., Elmalı F.
ANALYTICAL LETTERS, vol.42, no.14, pp.2254-2270, 2009 (SCI-Expanded)
- XX. **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)
- XXI. **Differential pulse polarographic determination of enalapril maleate**
ELMALI F., Alpdogan G., AYCAN S., SUNGUR S.
TURKISH JOURNAL OF CHEMISTRY, vol.27, no.1, pp.65-69, 2003 (SCI-Expanded)
- XXII. **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)
- XXIII. **Polarographic determination of fluvoxamine maleate in tablets**
ELMALI F., Alpdogan G., SUNGUR S., AYCAN S.
TURKISH JOURNAL OF CHEMISTRY, vol.24, no.3, pp.299-302, 2000 (SCI-Expanded)

Articles Published in Other Journals

- I. **2-[(E)-(1,10-Phenanthroline-5-yl)iminomethyl]phenol methanol monosolvate**
Tüncel Elmalı F., Demirhan N., Öztürk Yıldırım S., Butcher R. J.
Acta Crystallographica Section E, vol.68, pp.1173-1174, 2012 (Peer-Reviewed Journal)
- 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. **Synthesis and Characterization of Two New Schiff Bases and Their Metal Complexes**
Tüncel Elmalı F., Hezam A., Karadoğan B. K.
International Scientific Research Congress, Yalova, Turkey, 14 - 17 February 2019, pp.1
- II. **Synthesis of New Silicon Phthalocyanine and Spectral Properties**
Yaşa Atmaca G., Tüncel Elmalı F., Erdoğmuş A.
ICFAS 2016, İstanbul, Turkey, 22 - 26 August 2016, pp.1-2
- 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. **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
- V. **Use of GMA-MMA-DVB Microspheres Functionalized with 5-Amino-1,10-Phenanthroline for Preconcentration and Determination of Fe (II) by AAS**
DİNÇ Ş., TÜNCEL ELMALI F., ALPDOĞAN G., Sungur S.
7th Aegean Analytical Chemistry Days, Lesvos, Greece, 29 September - 03 October 2010, pp.187
- VI. **Potantimetric Studies of Copper(II), Nickel(II), and Cobalt(II) Complexes of the 1,10 Phenanthroline-5,6-Bis (Benzo-15-Crown-5)**
TUNCEL ELMALI F., ERDEN İ., AVCIATA O., AVCIATA U., DEMİRHAN N.
Chemical Physics V, The Fifth International Conference

Supported Projects

TÜNCEL ELMALI F., ÖZBEK B., Project Supported by Higher Education Institutions, Benzopiridin Türevli Schiff Bazları ve Bazı Geçiş Metal Komplekslerinin Sentezi, Karakterizasyonu ve Biyolojik Aktivitelerinin İncelenmesi, 2017 - 2020

TÜNCEL ELMALI F., Project Supported by Higher Education Institutions, 1,10-Fenantrolin Türevi Yeni Schiff Bazı Ligandlarının ve Ru(II), Fe(II), Au(III) ve Cu(I) Komplekslerinin Sentezi, Karakterizasyonu ve Biyolojik Aktivitelerinin İncelenmesi, 2010 - 2014

Demirhan N., Keser Karaoğlan G., Erden İ., Tüncel Elmalı F., Erdoğmuş 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

Avcıata U., Keser Karaoğlan G., Demirhan N., Tüncel Elmalı F., TUBITAK Project, Yeni Polifonksiyonel Ligandların Sentezi ve Multinükleer Komplekslerinin Hazırlanması, Stabilitelerinin Tayin Edilmesi, 2001 - 2004

Keser Karaoğlan G., Demirhan N., Avcıata 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: 31
Citation (WoS): 111
Citation (Scopus): 160
H-Index (WoS): 7
H-Index (Scopus): 7