

Prof. İbrahim ERDEN

Personal Information

Office Phone: [+90 212 383 4170](tel:+902123834170)

Email: ierden@yildiz.edu.tr

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

International Researcher IDs

ScholarID: [mqWdQ4cAAAAJ](https://orcid.org/mqWdQ4cAAAAJ)

ORCID: 0000-0002-3145-1280

Publons / Web Of Science ResearcherID: MHP-9951-2025

ScopusID: 7004130964

Yoksis Researcher ID: 38050

Education Information

Doctorate, Yildiz Technical University, Fen Edebiyat, Anorganik Kimya, Turkey 2001 - 2005

Postgraduate, Yildiz Technical University, Fen Edebiyat Fakültesi, Kimya Bölümü, Turkey 1998 - 2001

Undergraduate, Ondokuz Mayıs University, Fen Edebiyat Fakültesi, Kimya Bölümü, Turkey 1993 - 1997

Foreign Languages

English, C1 Advanced

Research Areas

Renewable energy, Electrical properties of electronic structures, interfaces, thin films and low-dimensional structures, Chemistry, Inorganic Chemistry, Coordination Chemistry, Novel Ligands, Natural Sciences, Engineering and Technology

Jury Memberships

Doctoral Examination, Doctoral Examination, Gebze Teknik Üniversitesi, July, 2019

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, April, 2018

Doctoral Examination, Doctoral Examination, Selçuk Üniversitesi, October, 2016

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, May, 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- Investigation of the effect of dye sensitized solar cell efficiency of donor and anchor groups in phthalocyanine compounds**
Karadoğan B., ERDEN İ.
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- Design and synthesis of 4,5-diazafluorene ligands and their ruthenium (II) complexes for photoresponse performance on organic photodiodes**

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- III. **Photovoltaic Properties of Thiophene-Containing Derivatives of 4,5-Diazafluorene and Their Ruthenium(II) Complexes**
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Theoretical and Experimental Chemistry, vol.59, no.3, pp.186-192, 2023 (SCI-Expanded)
- IV. **Investigation of the effectiveness of microencapsulated phase change materials for bitumen rheology**
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INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.12, pp.1-14, 2022 (SCI-Expanded)
- V. **New soluble 4-(4-formyl-2,6-dimethoxyphenoxy) substituted phthalocyanines: Synthesis, characterization, photophysical and photochemical properties**
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MAIN GROUP CHEMISTRY, vol.21, no.2, pp.421-430, 2022 (SCI-Expanded)
- VI. **Colorimetric detection of hydrogen peroxide with gadolinium complex of phenylboronic acid functionalized 4,5-diazafluorene**
Cebeci C., Ucar B., Acar T., ERDEN İ.
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- VII. **W- and Mo-based polyoxometalates (POM) as interlayer in Al/n-Si photodiodes**
Yenel E., Torlak Y., Kocyigit A., ERDEN İ., Kuş M., Yıldırım M.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.9, pp.12094-12110, 2021 (SCI-Expanded)
- VIII. **4,5-Diazafluorene ligands and their ruthenium(II) complexes with boronic acid and catechol anchoring groups: design, synthesis and dye-sensitized solar cell applications**
Cebeci C., Arslan B. S., Guzel E., Nebioglu M., Sisman I., ERDEN İ.
JOURNAL OF COORDINATION CHEMISTRY, vol.74, pp.1366-1381, 2021 (SCI-Expanded)
- IX. **Asymmetric phthalocyanine compounds in the structure D- π -A containing cyano groups: Design, synthesis and dye-sensitized solar cell applications**
Karadogan B., ERDEN İ., BERBER S.
MAIN GROUP CHEMISTRY, vol.20, no.2, pp.155-163, 2021 (SCI-Expanded)
- X. **Synthesis of D- π -A type 4,5-diazafluorene ligands and Ru (II) complexes and theoretical approaches for dye-sensitive solar cell applications**
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- XI. **Synthesis of phthalocyanines with donor-acceptor properties and their applications to dye-sensitized solar cell**
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- XII. **Effect of Different π -Conjugated Dyes Containing 4,5-Diazafluorenone-9- Hydrazone on The Performance of Dye-Sensitized Solar Cells**
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- XIII. **Dye-sensitized solar cell performance of a cobalt(III/II) redox mediator with the 4,5-diazafluorene-9-one ligand**
Erden İ., Faideci M. A., Erdönmez S.
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- XIV. **Synthesis, characterization and electrochemical properties of new phthalocyanines**
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- XV. **Synthesis and characterization of organic dyes containing 4,5-diazafluorene as efficient sensitizers for dye-sensitized solar cells**

- Erden İ., Cebeci C., Kilicarslan F.
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- XVI. **Synthesis and photovoltaic properties of organic photosensitizer using D- π -D type 4, 5-diazafluorene ligand and derivatives for efficient dye-sensitized solar cell**
Cebeci C., Kilicarslan F., Gurbuz O., Firat Y., Okutan M., Erden İ.
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- XVII. **Role of ion conducting polymeric electrolyte in suppressing deterioration of cathode electrodes in dye-sensitized solar cells**
Gürbüz O., Gelir A., Erden İ., Firat Y., Okutan M.
Dyes and Pigments, vol.134, pp.269-275, 2016 (SCI-Expanded)
- XVIII. **Beneficial use of marine dredged materials as a fine aggregate in ready-mixed concrete: Turkey example**
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- XIX. **Tetra- and octa-[4-(thiophen-3-yl)phenoxy]-bearing metal-free and Lu(III) phthalocyanines: synthesis, characterisation and investigation of photophysical properties**
Ozdemir M., Kilicarslan F., Erdoğan A., Erden İ.
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ERDEN İ., Kilicarslan F., ERDOĞMUŞ A.
SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.45, no.11, pp.1733-1738, 2015 (SCI-Expanded)
- XXI. **Synthesis and fluorescence properties of metalloporphyrazines carrying 2-(ethyl)-1,3-dioxanethio-groups**
Kilicarslan F., ERDOĞMUŞ A., ERDEN İ., Avciata U.
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- XXII. **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)
- XXIII. **Synthesis, spectral and photophysical properties of novel phthalocyanines bearing bulky phenantroxy moiety**
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- XXIV. **Highly soluble 3,4-(dimethoxyphenylthio) substituted phthalocyanines: Synthesis, photophysical and photochemical studies**
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- XXV. **Synthesis, electrochemical and spectroelectrochemical properties of highly soluble tetra substituted phthalocyanines with [4-(thiophen-3-yl)-phenoxy]**
ERDOĞMUŞ A., KOCA A., Ugur A. L., ERDEN İ.
SYNTHETIC METALS, vol.161, pp.1319-1329, 2011 (SCI-Expanded)
- XXVI. **Synthesis and characterization of new D- π -D type Schiff base ligands and its complexes with Cobalt(II), Ruthenium(II)**
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RUSSIAN JOURNAL OF INORGANIC CHEMISTRY, vol.55, no.12, pp.1903-1908, 2010 (SCI-Expanded)
- XXVII. **Hydrothermal preparation and characterization of nanocrystalline TiO₂ powder and its photocatalytic degradation of alizarin salt dye under UV-light**
AVCIATA O., SAHIN F., ERDEN İ., Avciata U.
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Erden I.
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- XXX. **Derivatization and in situ metallation of phthalocyanines using click chemistry**
Yilmaz Y., ŞENER M. K., ERDEN İ., Avciata U.
POLYHEDRON, vol.28, no.16, pp.3419-3424, 2009 (SCI-Expanded)
- XXXI. **Synthesis and Characterization of New D-pi-D Type Schiff Base Ligands**
Karaoglan G., ERDEN İ., Avciata U.
POLISH JOURNAL OF CHEMISTRY, vol.83, no.6, pp.1147-1152, 2009 (SCI-Expanded)
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ELMALI F., ERDEN İ., DEMİRHAN N., Avciata U.
JOURNAL OF CHEMICAL RESEARCH, no.2, pp.90-92, 2009 (SCI-Expanded)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **Synthesis and characterization of a new imidazole ligand and its complexes with cobalt(II), nickel(II) and copper(II)**
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SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.36, no.7, pp.559-562, 2006 (SCI-Expanded)
- XXXVII. **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.
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- XXXVIII. **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 İ., AVCIATA U.
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Articles Published in Other Journals

- I. **Investigation of the effect of a nitro group as an anchor group in dye-sensitized solar cells**
Aytan Kılıçarslan F., Erden İ.

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- II. **The Synthesis of D- π -D Derivative Phthalocyanines for Dye-Sensitized Solar Cell, Investigation of Spectroscopic and Electrical Properties**
Erden İ., Çaktı K., Aytan Kılıçarslan F.
Journal of Engineering Technology and Applied Sciences, vol.2, no.1, pp.43-56, 2017 (Peer-Reviewed Journal)
- III. **Effect of Au Grown on GaAs Substrate for Applying as Counter Electrode on Conversion Efficiency of Dye-Sensitized Solar Cells**
GURBUZ O., KIRSOY A., Kilicarslan F., ERDEN İ., BOZDOĞAN A., Firat Y.
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- IV. **Synthesis, Characterization and Photophysical Properties of Europium(III) Phthalocyanines Bearing [4-(thiophen-3yl)phenoxy]**
Erden İ., Aytan Kılıçarslan F.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.35, no.1, pp.23-24, 2016 (Peer-Reviewed Journal)
- V. **The Synthesis of Metal-Free and Metalloporphyrazines Carrying 2-Ethoxytetrahydro-2H-Pyranthio Groups for Dye-Sensitized Solar Cell, Investigation of Spectroscopic and Photovoltaic Properties**
Kilicarslan F., Erden İ., Gurbuz O., Erdoğan A., Okutan M.
ENERGY AND ENVIRONMENT FOCUS, vol.5, pp.181-186, 2016 (Peer-Reviewed Journal)
- VI. **E. Çakır, C. Ergun, F.Ç. Şahin, İ. Erden, "In situ synthesis of B4C/ TiB2 composites from low cost sugar based precursor**
Erden İ.
Defect and Diffusion Forum, vol.297, pp.52-56, 2010 (Scopus)
- VII. **1 10 Fenantrolinden Elde Edilen İmidazol Ve Schiff Bazı Ligandlarının Floresans Özelliklerinin İncelenmesi**
ERDEN İ., ÖZYİĞİT İ. E.
Sigma Journal of Engineering and Natural Sciences, pp.99-106, 2005 (ESCI)

Books

- I. **Part III : Characterization of Minerals and Ceramics**
ERDEN İ.
in: Characterization of Minerals, Metals, and Materials, Jiann-Yang H., Monteiro S.N., Editor, John Wiley & Sons, West Sussex, UK , -, pp.131-137, 2012

Papers Published in Refereed Scientific Meetings

- I. **Vanilin Türevli 4,5-Diazafluoren Bileşiklerinin Sentezi, DFT Çalışmaları Ve Boya Duyarlı Güneş Hücresi Üretimi**
Cebeci C., Erden İ., Hatipoğlu A., Aydoğdu Ş.
VII. Ulusal Anorganik Kimya Kongresi, Hitit Ün.Çorum, Çorum, Turkey, 19 - 22 June 2019, pp.1
- II. **Synthesis of Novel Cobalt Complexes Redox Shuttle for DyeSensitized Solar Cells**
Arslan Faideci M., Erden İ., Aytan Kılıçarslan F.
International Congress on Chemistry and Materials Science, ANCON 2017, Ankara, Turkey, 5 - 07 October 2017, pp.248
- III. **The synthesis Derivated 4,5-Diazafluorene for Dye-Sensitized Solar Cell, Investigation of Spectroscopic and Electrical**
ERDEN İ., CEBECİ C., AYTAN KILIÇARSLAN F.
19.JCF-Frühjahrssymposium, 29 March - 01 April 2017, pp.242
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19. JCF-FRÜHJAHRSYMPIUM, Mainz, Germany, 29 March 2017, pp.214

- V. **bis 4 florofenil metoksi Substitüentli Ftalosiyanın Bileşiklerinin Sentezi Karakterizasyonu ve Fotofiziksel Özelliklerinin İncelenmesi**
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- VI. **Synthesis Characterization Aggregation and Electrochemical Properties of Fluoro Functionality Phthalocyanines**
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- VII. **'Synthesis, Characterization, Aggregation and Electrochemical Properties of Fluoro Functionality Phthalocyanines**
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- VIII. **Role of cathode electron in dye sensitized solar cell Effect of GaAs Au**
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- IX. **Synthesis characterization and photovoltaic properties of free base CoII MgII NiII and ZnII containing porphyrazines as electro transporting materials for dye sensitized solar cells**
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- XIV. **Synthesis, characterization, spectral, aggregation and fluorescence studie of fluoro functionality phthalocyanines**
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- XV. **The Synthesis of D D Derivated Phthalocyanines for DyeSensitized Solar Cell Investigation of Spectroscopic and Electrical Properties**
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- XVI. **D A Tipi Schiff Bazı Ligandı ve Ru II Kompleksi Sentezi Karakterizasyonu ve Fotofiziksel Özelliklerinin İncelenmesi**
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- XVII. Novel D D Structed Porphyrazines Containing Diphenylamino Moieties for Dye Senitized Solar Cell**
AYTAN KILIÇARSLAN F., ERDEN İ.
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- XVIII. Synthesis spectral and fluorescence properties of double decker Lu III and Eu III phthalocyanines bearing peripherally octakis 4 thiophen 3 yl phenoxy substituents**
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- XX. Periferel Konumlarda 2-Etoksitetrahidro-2H-Pirantiyo Grupları Taşıyan Yeni Porfirazin Türevlerinin Sentezi ve Fotofiziksel Özelliklerinin İncelenmesi**
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- XXI. Synthesis and characterization of sandwich- type europium (III) phthalocyanines with different substituent**
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- XXII. Synthesis and Photophysicochemical Properties of Novel Zinc Phthalocyanines.**
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- XXIII. Synthesis and Photophysicochemical Properties of Novel Zinc Phthalocyanines**
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- XXIV. Synthesis and Characterization of Al, Ag, Ti, Cu, and B Substituted Hydroxylapatite**
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- XXV. D-Pİ-D Schiff Bazı Ligandlarının Antioksidatif Özellikleri**
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- XXIX. New Novel Soluble Porphyrazine Synthesis including various functional groups to investigate electrochemical properties**
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- XXX. D-π-D Grupları İçeren Yeni Tip Ligand Sentezi ve Karakterizasyonu**
Keser Karaoğlan G., Erden İ., Avciata U.
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- XXXI. Preperation of Crown Ether Based Initiator for ATRP**
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- XXXII. **Potentiometric Studies of Cobalt(II), Nickel(II) and Copper(II) Complexes of 6-amino-5,10a-dihydro[1,10]Phenanthroline-5-ylamino-anilinomethanethione**
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- XXXIII. **Potentiometric Studies of Cobalt(II), Nickel(II) and Copper(II) Complexes of Schiff base Ligand Derived from Benzo-15-Crown-15**
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- XXXIV. **Potentiometric Studies of Copper(II), Nickel(II) and Cobalt(II) Complexes of the Bis[4,4'-methyl-4,4'-(Benzo-15-Crown-5)] 5,6-N-Diamino-1,10-Phenanthronilydene**
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- XXXV. **Synthesis and Characterization of New Schiff Base From 5,6-Diamino-1,10-Phenanthroline**
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International Organic Chemistry Meeting, Hatay, Turkey, 25 - 30 April 2002, pp.56
- XXXVI. **Potentiometric Studies of Copper(II), Nickel(II), and Cobalt(II) Complexes of the 1,10-Phenanthroline-5,6-Bis (Benzo-15-Crown-5)**
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Supported Projects

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- Erden İ., Research Project of the Presidency of Turkey Health Institutes (TÜSEB), Fenilboronik Asit ile İşlevselleştirilmiş 4,5-Diazafluoren Metal Kompleksi İçeren Yara Örtülerinin Üretilmesi, 2022 - 2023
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Citation (WoS): 198

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H-Index (WoS): 7

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Invited Talks

Mol Günleri Etkinliđi, Conference, İnönü Mesleki ve Teknik Anadolu Lisesi, Turkey, April 2017

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Scholarships

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Awards

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