

## Prof. İbrahim ERDEN

### Personal Information

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### 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

- I. **Investigation of the effectiveness of microencapsulated phase change materials for bitumen rheology**  
Erden İ.  
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.12, pp.1-14, 2022 (SCI-Expanded)
- II. **New soluble 4-(4-formyl-2,6-dimethoxyphenoxy) substituted phthalocyanines: Synthesis, characterization, photophysical and photochemical properties**  
ERDEN İ., Karadogan B., Kilicarslan F. A., Atmaca G., ERDOĞMUŞ A.  
MAIN GROUP CHEMISTRY, vol.21, no.2, pp.421-430, 2022 (SCI-Expanded)
- III. **Colorimetric detection of hydrogen peroxide with gadolinium complex of phenylboronic acid functionalized 4,5-diazafluorene**  
Cebeci C., Ucar B., Acar T., ERDEN İ.  
INORGANICA CHIMICA ACTA, vol.522, 2021 (SCI-Expanded)

- IV. **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)
- V. **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)
- VI. **Asymmetric phthalocyanine compounds in the structure D- $\pi$ -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)
- VII. **Synthesis of D- $\pi$ -A type 4,5-diazafluorene ligands and Ru (II) complexes and theoretical approaches for dye-sensitive solar cell applications**  
ERDEN İ., HATİPOĞLU A., Cebeci C., AYDOĞDU Ş.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1201, 2020 (SCI-Expanded)
- VIII. **Synthesis of phthalocyanines with donor-acceptor properties and their applications to dye-sensitized solar cell**  
Karadogan B., Kilicarslan F., ERDEN İ.  
CHEMICAL PAPERS, vol.73, no.9, pp.2283-2288, 2019 (SCI-Expanded)
- IX. **Effect of Different  $\pi$ -Conjugated Dyes Containing 4,5-Diazafluorenone-9- Hydrazone on The Performance of Dye-Sensitized Solar Cells**  
ERDEN İ., Orman Z., Kilicarslan F.  
Journal of Structural Chemistry, vol.59, no.6, pp.1335-1341, 2018 (SCI-Expanded)
- X. **Dye-sensitized solar cell performance of a cobalt(III/II) redox mediator with the 4,5-diazafluoren-9-one ligand**  
Erden İ., Faideci M. A., Erdönmez S.  
TRANSITION METAL CHEMISTRY, vol.43, pp.279-284, 2018 (SCI-Expanded)
- XI. **Synthesis, characterization and electrochemical properties of new phthalocyanines**  
Kilicarslan F., KESKİN B., ERDEN İ., ERDOĞMUŞ A.  
Journal of Coordination Chemistry, vol.70, no.15, pp.2671-2683, 2017 (SCI-Expanded)
- XII. **Synthesis and characterization of organic dyes containing 4,5-diazafluorene as efficient sensitizers for dye-sensitized solar cells**  
Erden İ., Cebeci C., Kilicarslan F.  
JOURNAL OF COORDINATION CHEMISTRY, vol.70, pp.2334-2343, 2017 (SCI-Expanded)
- XIII. **Synthesis and photovoltaic properties of organic photosensitizer using D- $\pi$ -D type 4, 5-diazafluorene ligand and derivatives for efficient dye-sensitized solar cell**  
Cebeci C., Kilicarslan F., Gurbuz O., Fırat Y., Okutan M., Erden İ.  
Dyes and Pigments, vol.134, pp.77-82, 2016 (SCI-Expanded)
- XIV. **Role of ion conducting polymeric electrolyte in suppressing deterioration of cathode electrodes in dye-sensitized solar cells**  
Gürbüz O., Gelir A., Erden İ., Fırat Y., Okutan M.  
Dyes and Pigments, vol.134, pp.269-275, 2016 (SCI-Expanded)
- XV. **Beneficial use of marine dredged materials as a fine aggregate in ready-mixed concrete: Turkey example**  
Ozer-Erdogan P., Basar H. M., Erden İ., Tolun L.  
CONSTRUCTION AND BUILDING MATERIALS, vol.124, pp.690-704, 2016 (SCI-Expanded)
- XVI. **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.  
JOURNAL OF CHEMICAL RESEARCH, pp.250-254, 2016 (SCI-Expanded)

- XVII. **Synthesis and Characterization of New D-pi-A Type Fluorene Ligands and Their Ru(II) Complexes**  
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)
- XVIII. **Synthesis and fluorescence properties of metalloporphyrazines carrying 2-(ethyl)-1,3-dioxanethio-  
groups**  
Kilicarslan F., ERDOĞMUŞ A., ERDEN İ., Avciata U.  
JOURNAL OF CHEMICAL RESEARCH, no.2, pp.90-97, 2015 (SCI-Expanded)
- XIX. **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)
- XX. **Synthesis, spectral and photophysical properties of novel phthalocyanines bearing bulky  
phenantroxy moiety**  
ERDOĞMUŞ A., Ugur A. L., Memisoglu A., ERDEN İ.  
JOURNAL OF LUMINESCENCE, vol.134, pp.483-490, 2013 (SCI-Expanded)
- XXI. **Highly soluble 3,4-(dimethoxyphenylthio) substituted phthalocyanines: Synthesis, photophysical and  
photochemical studies**  
ÖZTÜRK C., ERDOĞMUŞ A., Durmus M., Ugur A. L., Kilicarslan F., ERDEN İ.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.86, pp.423-431, 2012  
(SCI-Expanded)
- XXII. **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)
- XXIII. **Synthesis and characterization of new D-pi-D type Schiff base ligands and its complexes with  
Cobalt(II), Ruthenium(II)**  
ERDEN İ., DEMİRHAN N., Avcata U.  
RUSSIAN JOURNAL OF INORGANIC CHEMISTRY, vol.55, no.12, pp.1903-1908, 2010 (SCI-Expanded)
- XXIV. **Hydrothermal preparation and characterization of nanocrystalline TiO<sub>2</sub> powder and its  
photocatalytic degradation of alizarin salt dye under UV-light**  
AVCIATA O., SAHIN F., ERDEN İ., Avciata U.  
Asian Journal of Chemistry, vol.22, no.4, pp.2953-2958, 2010 (SCI-Expanded)
- XXV. **Antioxidative properties of recently synthesised D-Pi-D type Schiff-base ligands**  
Karaoglan G., Kiyamaz N., Erden İ., Peksel A.  
JOURNAL OF CHEMICAL RESEARCH, no.6, pp.340-343, 2010 (SCI-Expanded)
- XXVI. **Synthesis and Characterization of new D-pi-D Type Schiff Base Ligands by 1,10-Phenanthroline  
Derivatives and its Complexes with Ruthenium(II)**  
Erden İ.  
ASIAN JOURNAL OF CHEMISTRY, vol.22, no.4, pp.2959-2964, 2010 (SCI-Expanded)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)

- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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.  
SYNTHESIS AND REACTIVITY IN INORGANIC AND METAL-ORGANIC CHEMISTRY, vol.32, no.8, pp.1361-1372, 2002 (SCI-Expanded)

## Articles Published in Other Journals

- I. **The Synthesis of D- $\pi$ -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)
- II. **Synthesis, Characterization and Photophysical Properties of Europium(III) Phthalocyanines Bearing [4-(thiophen-3yl)phenoxy]**  
Erden İ., Aytan Kılıçarslan F.  
Sigma J Eng & Nat Sci, vol.35, no.1, pp.23-24, 2016 (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.  
ENERGY AND ENVIRONMENT FOCUS, vol.5, no.4, pp.268-273, 2016 (Peer-Reviewed Journal)
- IV. **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)
- V. **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)

- VI. **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 & Book Chapters

- 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

## Refereed Congress / Symposium Publications in Proceedings

- 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
- IV. **The effects of various anchoring groups on the photovoltaic performance of phthalocyanine sensitizer for dye-sensitized solar**  
ERDOĞMUŞ A., KIRBAÇ E., ERDEN İ., Fırat Y.  
19. JCF-FRÜHJHRSSYMPIUM, Mainz, Germany, 29 March 2017, pp.214
- V. **bis 4 florofenil metoksi Substitüentli Ftalosiyenin Bileşiklerinin Sentezi Karakterizasyonu ve Fotofiziksel Özelliklerinin İncelenmesi**  
AYTAN KILIÇARSLAN F., ERDOĞMUŞ A., ERDEN İ.  
III. Ulusal Organik Kimya Kongresi, Karadeniz Teknik Üniversitesi, Trabzon, Turkey, 5 - 08 September 2016
- VI. **Synthesis Characterization Aggregation and Electrochemical Properties of Fluoro Functionality Phthalocyanines**  
AYTAN KILIÇARSLAN F., KESKİN B., ERDOĞMUŞ A., ERDEN İ.  
International Congress on Fundamental and Applied Sciences 2016 (ICFAS2016), İstanbul, Turkey, 22 - 26 August 2016
- VII. **'Synthesis, Characterization, Aggregation and Electrochemical Properties of Fluoro Functionality Phthalocyanines**  
Erden İ.  
International Congress on Fundamental and Applied Sciences 2016 , İstanbul, Turkey, 22 - 26 August 2016, pp.177
- VIII. **Role of cathode electron in dye sensitized solar cell Effect of GaAs Au**  
ÇELİK BOZDOĞAN A., KIRSOY A., GÜRBÜZ O., ERDEN İ., AYTAN KILIÇARSLAN F., OKUTAN M.  
12. International Nanoscience and Nanotechnology Conference, 3 - 05 June 2016
- IX. **Synthesis characterization and photovoltaic properties of free base CoII Mg II Ni II and Zn II containing porphyrazines as electron transporting materials for dye sensitized solar cells**  
GÜRBÜZ O., AYTAN KILIÇARSLAN F., ERDOĞMUŞ A., ERDEN İ., OKUTAN M.

oemt 2016, 17 - 19 May 2016

- X. **The Synthesis of D D Derivated 4 5 Diazafluorenone for Dye Sensitized Solar Cell Investigation of Spectroscopic and Electrical Properties**  
Aytan Kılıçarslan F., Gürbüz O., Okutan M., Erden İ.  
oemt 2016, Çanakkale, Turkey, 17 - 19 May 2016
- XI. **Novel D- $\pi$ -D 4,5-Diazafluorenone and derivate dyes for use in Dye-Sensitized Solar Cell**  
Erden İ.  
2nd International Conference on Organic Electronic Material Technologies, Antalya, Turkey, 17 - 19 May 2016, pp.211
- XII. **The Synthesis of D- $\Delta$ -A Derivated Fluorenone for Dye-Sensitized Solar Cell, Investigation of Spectroscopic and Electrical Properties**  
Erden İ.  
18th. JCF-Frühjahrssymposium, Kiel, Germany, 16 - 19 March 2016, pp.224
- XIII. **Synthesis, characterization, spectral, aggregation and fluorescence studie of fluoro functionality phthalocyanines**  
Erden İ.  
18th JCF-Frühjahrssymposium, Kiel, Germany, 16 - 19 March 2016, pp.227
- XIV. **The Synthesis of D D Derivated Phthalocyanines for DyeSensitized Solar Cell Investigation of Spectroscopic and Electrical Properties**  
Çaktı K., Aytan Kılıçarslan F., Altındal A., Okutan M., Erden İ.  
2nd International Nanoscience and Nanotechnology for Next Generation Conference (NaNoNG), Antalya, Turkey, 28 - 30 October 2015, pp.130
- XV. **D A Tipi Schiff Bazı Ligandı ve Ru II Kompleksi Sentezi Karakterizasyonu ve Fotofiziksel Özelliklerinin İncelenmesi**  
ERDEN İ., AYTAN KILIÇARSLAN F.  
V. Ulusal Anorganik Kimya Kongresi, Mersin, Turkey, 18 - 22 May 2015, pp.191
- XVI. **Novel D D Structed Porphyrazines Containing Diphenylamino Moieties for Dye Senitized Solar Cell**  
AYTAN KILIÇARSLAN F., ERDEN İ.  
17th JCF-Frühjahrssymposium (spring symposium), Münster, Germany, 1 - 03 March 2015
- XVII. **Synthesis spectral and fluorescence properties of double decker Lu III and Eu III phthalocyanines bearing peripherally octakis 4 thiophen 3 yl phenoxy substituents**  
Özdemir M., Aytan Kılıçarslan F., Erdoğmuş A., Erden İ.  
INTERNATIONAL SYMPOSIUM ON MOLECULAR CHEMISTRY, İstanbul, Turkey, 19 - 20 December 2014, pp.189
- XVIII. **Synthesis characterization spectral aggregation and fluorescence properties of novel porphyrazines**  
AYTAN KILIÇARSLAN F., ERDOĞMUŞ A., ERDEN İ., AVCIATA U.  
INTERNATIONAL SYMPOSIUM ON MOLECULAR CHEMISTRY, İstanbul, Turkey, 19 December 2014, pp.188
- XIX. **Periferel Konumlarda 2-Etoksitetrahidro-2H-Pirantiyo Grupları Taşıyan Yeni Porfirazin Türevlerinin Sentezi ve Fotofiziksel Özelliklerinin İncelenmesi**  
AYTAN KILIÇARSLAN F., ERDOĞMUŞ A., ERDEN İ., AVCIATA U.  
IV. Ulusal Anorganik Kimya Kongresi, Tokat, Turkey, 30 May 2013, pp.167
- XX. **Synthesis and characterization of sandwich- type europium (III) phthalocyanines with different substituent**  
Erden İ., Özdemir M., Yaşa Atmaca G., Aytan Kılıçarslan F., Erdoğmuş A.  
15th JCF-Frühjahrssymposium, Berlin, Germany, 06 March 2013, pp.256
- XXI. **Synthesis and Photophysicochemical Properties of Novel Zinc Phthalocyanines.**  
Erden İ.  
15th JCF- Frühjahrssymposium. , Berlin, Germany, 6 - 09 March 2013, pp.112
- XXII. **Synthesis and Photophysicochemical Properties of Novel Zinc Phthalocyanines**  
ERDOĞMUŞ A., KIRBAÇ E., YASA ATMACA G., UĞUR A. L., ERDEN İ.  
15th JCF- Frühjahrssymposium, 01 March 2013
- XXIII. **Synthesis and Characterization of Al, Ag, Ti, Cu, and B Substituted Hydroxylapatite**

Ergun C., Webster T. J., Güneş G., Bahadır A., Liu H., ERDEN İ.

Symposium on Characterization of Minerals, Metals and Materials held during TMS Annual Meeting and Exhibition, Florida, United States Of America, 11 - 15 March 2012, pp.131-137

- XXIV. **D-Pİ-D Schiff Bazı Ligandlarının Antioksidatif Özellikleri**  
Erden İ., ALTAŞ N., Peksel A.  
24. Ulusal Kimya Kongresi, 01 July 2010
- XXV. **D-Ş-D Tip Schiff Bazı Ligandlarının Antioksidatif Özellikleri**  
Altaş N., Keser Karaoğlan G., Erden İ., Peksel A.  
24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June - 02 July 2010, pp.82
- XXVI. **D-?-D Tip Schiff Bazı Ligandlarının Antioksidatif Özellikleri**  
Erden İ., Altaş Kıymaz N., PEKSEL A.  
24. Ulusal Kimya Kongresi, Zonguldak, 01 June 2010
- XXVII. **In Situ Synthesis of B4C/TiB2 Composites from Low Cost Sugar Based Precursor**  
Cakir E., Ergun C., Şahin F., ERDEN İ.  
5th International Conference on Diffusion in Solids and Liquids, Rome, Italy, 24 - 26 June 2009, pp.52-0
- XXVIII. **New Novel Soluble Porphyrizine Synthesis including various functional groups to investigate electrochemical properties**  
Tuncer S., Keskin B., Erden İ., Avciata U., Koca A., Gül A.  
8th International Electrochemistry Meeting in Turkey, Antalya, Turkey, 8 - 11 October 2009, vol.1, no.1, pp.21
- XXIX. **D-n-D Grupları İçeren Yeni Tip Ligand Sentezi ve Karakterizasyonu**  
Keser Karaoğlan G., Erden İ., Avciata U.  
XXII. National Chemistry Congress, Gazimagusa, Cyprus (Kkct), 6 - 10 October 2008, pp.97
- XXX. **Preparation of Crown Ether Based Initiator for ATRP**  
Erden İ.  
7th Austrian Polymer Meeting, Graz, Austria, 4 - 06 July 2005, pp.203
- XXXI. **Potentiometric Studies of Cobalt(II), Nickel(II) and Copper(II) Complexes of 6-amino-5,10a-dihydro[1,10]Phenanthroline-5-ylamino-anilinothione**  
Erden İ.  
4th Aegean Analytical Chemistry Days, İzmir, Turkey, 29 September - 03 October 2004, pp.101
- XXXII. **Potentiometric Studies of Cobalt(II), Nickel(II) and Copper(II) Complexes of Schiff base Ligand Derived from Benzo-15Crown-15**  
Erden İ.  
4th Aegean Analytical Chemistry Days, İzmir, Turkey, 29 September - 03 October 2004, pp.201
- XXXIII. **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-Phenanthroline**  
Keser Karaoğlan G., Demirhan N., Erden İ., Avciata U.  
The Fifth International Conference on Chemical Physics, İstanbul, Turkey, 31 October - 01 November 2002, pp.120
- XXXIV. **Synthesis and Characterization of New Schiff Base From 5,6-Diamino-1,10-Phenanthroline**  
Erden İ.  
International Organic Chemistry Meeting, Hatay, Turkey, 25 - 30 April 2002, pp.56
- XXXV. **Potentiometric 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

Erden İ., TÜBİTAK Project, D A D D ÖZELLİKLİ ORGANİK MADDELER İLE BUNLARIN RUTENYUM ÇİNKO KOMPLEKSLERİNİN SENTEZİ VE GÜNEŞ PİLİNDE UYGULAMALARI, 2014 - 2018

ERDEN İ., Project Supported by Higher Education Institutions, Nadir Toprak Metalleri İçeren Sandviç Tipi Ftalosiyanın

Türevlerinin Sentezi Ve Fotofiziksel Özelliklerinin İncelenmesi, 2013 - 2015

ERDEN İ., Project Supported by Higher Education Institutions, Çözünebilen süstitüe gruplar içeren ftolasiyanin ve metal komplekslerinin sentezi, fotofiziksel özellikleri ve karakterizasyonu, 2011 - 2013

ERDEN İ., Project Supported by Higher Education Institutions, D-960;-D Grupları İçeren Yeni Tip Schiff Bazı Ligandları Ve Metal Komplekslerinin Sentezi Ve Karakterizasyonu, 2008 - 2012

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Avcıata U., Keskin B., Erdođmuş A., Erden İ., Demiryürek B., Demirhan N., Avcıata O., Selimođlu E., Tuncer S., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Demir ve Saç Yüzeylerinin Korunması Amacıyla, Polimer Korumalı ve Çevre Kirliliđi 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

Keskin B., Erden İ., Erdođmuş A., Avcıata U., Project Supported by Higher Education Institutions, Taç Eter Gruplar İçeren Yeni Polifonksiyonel Porfirazinlerin Sentezi, Komplekslerinin Hazırlanması ve Karakterizasyonu, 2004 - 2006

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## Scientific Refereeing

INORGANICA CHIMICA ACTA, SCI Journal, December 2017

Journal of Electroanalytical Chemistry, SCI Journal, August 2017

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## Scientific Consultations

tübitak, Project Consultancy, Yıldız Technical University, Faculty Of Arts & Science, Department Of Chemistry, Turkey, 2015 - 2017

## Metrics

Publication: 78

Citation (WoS): 198

Citation (Scopus): 209

H-Index (WoS): 7

H-Index (Scopus): 8

## Invited Talks

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

Mol Günleri Etkinliđi, Seminar, Vizyon Koleji, Turkey, October 2015



## **Scholarships**

YÖK Bursu, University, 2012 - 2012

## **Awards**

Erden İ., POSTER SUNUMU (1.lik), 2Nd International Conference On Organic Electronic Material Technologies, May 2016

Erden İ., Akademik Ödül Töreni ( 3.Lük Ödülü-Yrd. Doç.Dr.), Ytu, September 2010