

## Prof. METİN ÖZER

### Personal Information

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### Education Information

Doctorate, Marmara University, Faculty Of Arts And Sciences, Chemistry, Turkey 1994 - 1999

Postgraduate, Marmara University, Faculty Of Arts And Sciences, Chemistry, Turkey 1990 - 1993

Undergraduate, Istanbul University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1984 - 1989

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Benomyl (methyl-1 butyl carbamoyl 2-benzimidazolecarbamate)in belirlenmesi için yeni bir analiz yönteminin geliştirilmesi, Marmara Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1999

Postgraduate, Piridoksaliden antranilik asid'in eldesi ve Cu(II) kompleksinin yapısının incelenmesi, Marmara Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1994

### Research Areas

Atomic Mass Spectrometry, Atomic and Molecular Spectroscopy, Electromagnetic Methods, Emission Spectroscopy, fluorimetry, Infrared Spectroscopy, Chromatographic Analysis, Mass Spectroscopy, Magnetic Resonance Spectroscopy, Molecular Mass Spectroscopy, Sensors, Spectroscopical Methods, Transition Metals, Catalysis, Coordination Chemistry

### Academic Titles / Tasks

Professor, Marmara University, Faculty Of Arts And Sciences, Chemistry, 2017 - Continues

Associate Professor, Marmara University, Faculty Of Arts And Sciences, Chemistry, 2011 - 2017

Assistant Professor, Marmara University, Faculty Of Arts And Sciences, Chemistry, 2009 - 2011

Expert, Marmara University, Faculty Of Arts And Sciences, Chemistry, 1990 - 2009

### Academic and Administrative Experience

Deputy Head of Department, Marmara University, Faculty Of Arts And Sciences, Chemistry, 2012 - 2015

## Courses

Enstrümental Analiz, Undergraduate, 2019 - 2020

Enstrümental Analiz, Undergraduate, 2019 - 2020

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Electrochemical, spectroelectrochemical, electrocatalytic oxygen reducing, and heavy metal ion sensing properties of novel tetrakis-[4-((2, 8-bis (trifluoromethyl) quinolin-4-yl) oxyl)] substituted metallophthalocyanines**  
Daban N., ORMAN E. B. , Meyancı L., ALTINDAL A., ÖZER M., ÖZKAYA A. R.  
Journal of Molecular Structure, vol.1250, 2022 (Journal Indexed in SCI Expanded)
- II. **Synthesis and characterization of the novel 4-(1-(pyridin-4-yl) ethoxyl) substituted bis(phthalocyaninato) rare earth complexes and investigation of their two-photon absorption-based third-order non-linear optical properties**  
Çavuş A., GÖRK G., ERDEM M., ÖZER M.  
Journal of Molecular Structure, vol.1247, 2022 (Journal Indexed in SCI)
- III. **Synthesis, characterization, third-order non-linear optical properties and DFT studies of novel SUBO bridged ball-type metallophthalocyanines**  
Alizadeh S., Kösoğlu G., Erdem M., Açar-Selçuki N., Özer M., Salih B., Bekaroğlu Ö.  
DALTON TRANSACTIONS, vol.49, no.47, pp.17263-17273, 2020 (Journal Indexed in SCI)
- IV. **Synthesis, characterization, DFT study, conductivity and effects of humidity on CO2 sensing properties of the novel tetrakis- [2-(dibenzylamino)ethoxyl] substituted metallophthalocyanines**  
Senoglu S., Özer M., Dumludağ F., Acar N., Salih B., Bekaroglu O.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.310, 2020 (Journal Indexed in SCI)
- V. **Novel tetrakis 4-(hydroxymethyl)-2,6-dimethoxyphenoxy substituted metallophthalocyanines: Synthesis, electrochemical redox, electrocatalytic oxygen reducing, and volatile organic compounds sensing and adsorption properties**  
Gunay I., Orman E. B. , Altındal A., Salih B., Özer M., Özkaya A. R.  
DYES AND PIGMENTS, vol.154, pp.172-187, 2018 (Journal Indexed in SCI)
- VI. **Electrocatalytic Activity of Novel Ball-Type Metallophthalocyanines with Trifluoro Methyl Linkages in Oxygen Reduction Reaction and Application as Zn-Air Battery Cathode Catalyst**  
Kocyigit N., Ozen U. E. , Özer M., Salih B., Özkaya A. R. , Bekaroglu O.  
ELECTROCHIMICA ACTA, vol.233, pp.237-248, 2017 (Journal Indexed in SCI)
- VII. **Novel 4,4 '-{(diphenylmethylene) bis(4,1-phenylene)bis(oxy)}-bridged ball-type phthalocyanines: Electrochemical, electrocatalytic oxygen reducing and heavy metals ions sensing properties**  
Dogan E., ÖZER M., ALTINDAL A., ÖZKAYA A. R. , SALİH B., Bekaroglu O.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.20, pp.1319-1333, 2016 (Journal Indexed in SCI)
- VIII. **Communication-High-Performance and Non-Precious Bifunctional Oxygen Electrocatalysis with Binuclear Ball-Type Phthalocyanine Based Complexes for Zinc-Air Batteries**  
Ozen U. E. , Dogan E., Özer M., Bekaroglu O., Özkaya A. R.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.163, 2016 (Journal Indexed in SCI)
- IX. **Synthesis, characterization, OFET and electrochemical properties of novel dimeric metallophthalocyanines**  
Ozer L. M. , ÖZER M., Altındal A., ÖZKAYA A. R. , SALİH B., Bekaroglu O.  
DALTON TRANSACTIONS, vol.42, no.18, pp.6633-6644, 2013 (Journal Indexed in SCI)
- X. **Catalytic Activity of a Thermoregulated, Phase-Separable Pd(II)-perfluoroalkylphthalocyanine Complex in an Organic/Fluorous Biphasic System: Hydrogenation of Olefins**  
YILMAZ F., ÖZER M., KANİ İ., Bekaroglu O.  
CATALYSIS LETTERS, vol.130, pp.642-647, 2009 (Journal Indexed in SCI)
- XI. **Synthesis, characterization and catalytic activity of novel Co(II) and Pd(II)-**

**perfluoroalkylphthalocyanine in fluorous biphasic system; benzyl alcohol oxidation**

ÖZER M., YILMAZ F., Erer H., KANI İ., Bekaroglu O.

APPLIED ORGANOMETALLIC CHEMISTRY, vol.23, no.2, pp.55-61, 2009 (Journal Indexed in SCI)

- XII. **Ball-type supramolecular metallophthalocyanines with eight perfluorodecyl units: chemosensors for SO<sub>2</sub> and electrocatalysts for oxygen reduction**  
ÖZER M., Altındal A., ÖZKAYA A. R. , Bekaroglu O.  
DALTON TRANSACTIONS, no.17, pp.3175-3181, 2009 (Journal Indexed in SCI)
- XIII. **Electrocatalytic activity, methanol tolerance and stability of perfluoroalkyl-substituted mononuclear, and ball-type dinuclear cobalt phthalocyanines for oxygen reduction in acidic medium**  
Koc I., Oezer M., Oezkaya A. R. , Bekaroglu O.  
DALTON TRANSACTIONS, no.32, pp.6368-6376, 2009 (Journal Indexed in SCI)
- XIV. **Synthesis and characterization of novel cofacial bis-phthalocyanines containing 16-crown-5 ether groups**  
ÖZER M., Altındal A., Salih B., Bulut M., Bekaroglu O.  
TETRAHEDRON LETTERS, vol.49, no.5, pp.896-900, 2008 (Journal Indexed in SCI)
- XV. **Fluorescent vic-dioxime-type ligand and its mono- and dinuclear complexes: The preparation, spectroscopy, and electrochemistry of its various complexes**  
Oezer M., Kandaz M., Oezkaya A. R. , Bulut M., Gueney O.  
DYES AND PIGMENTS, vol.76, no.1, pp.125-132, 2008 (Journal Indexed in SCI)
- XVI. **Synthesis, characterization, and electrochemical and electrical properties of novel pentaerythritol-bridged cofacial bismetallophthalocyanines and their water-soluble derivatives**  
Oezer M., Altındal A., Oezkaya A. R. , Salih B., Bulut M., Bekaroglu O.  
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY, no.22, pp.3519-3526, 2007 (Journal Indexed in SCI)
- XVII. **Synthesis, characterization and some properties of novel bis(pentafluorophenyl)methoxyl substituted metal free and metallophthalocyanines**  
Ozer M., Altındal A., Ozkaya A. R. , Bulut M., Bekaroglu O.  
POLYHEDRON, vol.25, pp.3593-3602, 2006 (Journal Indexed in SCI)
- XVIII. **Derivatization, characterization and high-performance liquid chromatography-UV detection method for benomyl determination in wettable powder (benlate)**  
Ozer M., Aydin A., Ozer L.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.15, no.4, pp.322-327, 2006 (Journal Indexed in SCI)
- XIX. **Synthesis, characterization, and electrical, electrochemical and gas sensing properties of a novel cyclic borazine derivative containing three phthalocyaninato zinc(II) macrocycles**  
Ozer M., Altındal A., Ozkaya A. R. , Bulut M., Bekaroglu O.  
SYNTHETIC METALS, vol.155, no.1, pp.222-231, 2005 (Journal Indexed in SCI)
- XX. **Synthesis of some 3-phenyl chromenone-crown ethers and equilibrium studies on complexation with ion-pair extraction of sodium and potassium dyes**  
Cakir U., Ozer M., Icen M., Ugras H., Bulut M.  
DYES AND PIGMENTS, vol.60, no.3, pp.177-185, 2004 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **The Investigation of the Electrical Properties of a Newly Synthesized Phthalocyanine Thin Film and the Effect of the Preparation Conditions**  
Aktaş Y., Şen P., Dumludağ F., Altındal A., Özer M., Bulut M., Bekaroğlu Ö.  
Balkan Physics Letters, vol.1, pp.551-554, 2008 (Refereed Journals of Other Institutions)
- II. **The Effect of Ambient Conditions on the Impedance Spectra of Newly Synthesized Organic Semiconductor Thin Films**  
Aktaş Y., Şen P., Dumludağ F., Altındal A., Özer M., Bulut M., Bekaroğlu Ö.  
American Institute of Physics, vol.899, pp.233-234, 2007 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Yeni Tip 1-[3,5-Bis(Trifluorometil) Fenil] Propoksil Sübstitüe Double-Decker Ftalosiyenin Komplekslerinin Sentezi, Karakterizasyonu Ve Spektroskopik Özelliklerinin İncelenmesi**  
KARACAN M., ÖZER M.  
EUROASIA SUMMIT 2nd INTERNATIONAL APPLIED SCIENCE CONGRESS, ST PETERSBURG, Russia, 19 June 2021
- II. **Trifenilfosfin Koordinasyonlu Fosforesans/Fluoresans Karakterli Yeni Tip Iridium Bazlı Komplekslerin Sentezi, Karakterizasyonu ve Fotolüminesans Özelliklerinin İncelenmesi**  
SOYALTIN C., ÖZER M., ÇUBUK S.  
32.Ulusal Kimya Kongresi, İstanbul, Turkey, 17 - 19 September 2020
- III. **1,2-Bis(difenilfosfino)etan Koordinasyonlu Lüminesans Özellikli Yeni Tip Iridium Bazlı Yarı-Komplekslerin Sentezi, Karakterizasyonu ve Fosforesans Özelliklerinin İncelenmesi**  
Evitan Z., ÖZER M., ÇUBUK S.  
32.Ulusal Kimya Kongresi, İstanbul, Turkey, 17 September 2020
- IV. **Yeni Tetrakis 4-(Difenil(piridin-4-il) Metoksil Sübstitüe Metalli Ftalosiyeninler: Sentezi ve Elektrokimyası**  
Akbal T., Fındık G. S. , Cengiz E. Ş. , ORMAN E. B. , ÖZER M., SALİH B., ÖZKAYA A. R.  
30. ULUSAL KİMYA KONGRESİ, Cyprus (Kkct), 5 - 08 November 2018
- V. **Yeni Tip Azo Boyar Madde Sentezi ve Karakterizasyonu**  
Ertem M., Akbal T., Kanmaz Ş., ÖZER M., ÇAKMAKÇI E.  
30. ULUSAL KİMYA KONGRESİ, Turkey, 5 - 08 November 2018
- VI. **Organik Işık Yayan Diyot (OLED) Uygulama Alanlarına Yönelik Yeni Tip Ir (III) Kompleksleri**  
Akbal T., ÖZER M., Kanmaz Ş., Ertem M.  
30. ULUSAL KİMYA KONGRESİ, Cyprus (Kkct), 5 - 08 November 2018
- VII. **Yeni Tetrakis 4-(1-(Piridin-4-il) Etoksil Sübstitüe Metalli Ftalosiyeninler: Sentezi ve Elektrokimyası**  
Özdemir B., Çavuş A., Akbal T., ORMAN E. B. , ÖZER M., SALİH B., ÖZKAYA A. R.  
30. ULUSAL KİMYA KONGRESİ, Cyprus (Kkct), 5 - 08 November 2018
- VIII. **Yeni Bir Tosil-Dimetoksi Fenoksil Sübstitüe Demir (II) Merkezli Ftalosiyenin Kompleksi Sentez ve Karakterizasyonu**  
Özbalak İ., Kanmaz Ş., Ertem M., Esin N., Akbal T., ÖZER M.  
30. ULUSAL KİMYA KONGRESİ, Cyprus (Kkct), 5 - 08 November 2018
- IX. **Tosilat ve Dimetoksifenoksil Sübstitüe Yeni Tip Metalloftalosiyeninlerin Sentezi ve Spektroskopik Karakterizasyonu**  
Esin N., Kanmaz Ş., Ertem M., Özbalak İ., Akbal T., ÖZER M.  
30. ULUSAL KİMYA KONGRESİ, Cyprus (Kkct), 5 - 08 November 2018
- X. **Yeni Tip Ir (III) Komplekslerinin Sentezi Ve Karakterizasyonu**  
Kanzmaz Ş., Akbal T., Ertem M., ÖZER M., ÇAKMAKÇI E.  
30. ULUSAL KİMYA KONGRESİ, Cyprus (Kkct), 5 - 08 November 2018
- XI. **Novel Tetrakis 4-(1-(pyridin-4-yl)ethoxyl) Substituted Phthalocyanine Derivatives: Synthesis and DFT/TD-DFT Calculations**  
Fındık V., Erdem S., Çavuş A., Özdemir B., Akbal T., Özer M.  
11th Congress on Electronic Structure Principles and Applications, Toledo, Spain, 17 - 19 July 2018, pp.1-2
- XII. **SYNTHESIS AND ELECTROCHEMISTRY OF NOVEL TETRAKIS 2-DIBENZYLAMINOETOXYL SUBSTITUTED METALLOPHTHALOCYANINES**  
Şenoğlu S., ORMAN E. B. , ÖZER M., SALİH B., ÖZKAYA A. R. , BEKAROĞLU Ö.  
4th International Conference on New Trends in Chemistry, St. Petersburg, Russia, 11 - 13 May 2018
- XIII. **SYNTHESIS AND ELECTROCHEMISTRY OF NOVEL TETRAKIS 2-DİBENZYLAMINOETOXYL SUBSTITUTED METALLOPHTHALOCYANINES**  
Şenoğlu S., ORMAN E. B. , ÖZER M., SALİH B., ÖZKAYA A. R. , BEKAROĞLU Ö.  
4th International Congress on New Trends in Chemistry, St.Petersburg, Russia, 11 - 13 May 2018
- XIV. **NOVEL TETRAKIS 4-(1-(PYRIDIN-4-YL)ETHOXYL) SUBSTITUTED METALLOPHTHALOCYANINES:**

## SYNTHESIS AND ELECTROCHEMISTRY

Çavuş A., Özdemir B., Akbal T., ORMAN E. B., ÖZER M., SALİH B., ÖZKAYA A. R.

4th International Conference on New Trends in Chemistry, St. Petersburg, Russia, 11 - 13 May 2018

- XV. **Electrochemical/Electro-catalytic Applications of Novel Alcohol Substituted Metallophthalocyanines**  
Günay İ., ORMAN E. B., ÖZER M., SALİH B., ÖZKAYA A. R.  
ICPESE 2017 : 19th International Conference on Power and Energy Systems Engineering, 28 - 29 August 2017
- XVI. **Concentration effect on the Nonlinear Optical Absorption of the Novel 4-(2-(dibenzylamino)ethoxy) Substituted Nickel(II) Phthalocyanine Complex**  
ERDEM M., SEMA Ş., EDES F. K., ÖZER M., SALİH B., ERYÜREK G., BEKAROĞLU Ö.  
The International ISCMP Joint Science Congress of Materials and Polymers 25-28 August - Metropol Lake Resort - OHRID MACEDONIA, 25 August - 28 July 2017
- XVII. **Synthesis and characterization of unique bifunctional oxygen electrocatalysts M<sub>2</sub>Pc<sub>2</sub> type macrocycles and their usage in the secondary Zn O<sub>2</sub> battery applications**  
ÖZER M., Koçyiğit N., Özen Ü. E., ÖZKAYA A. R., Bekaroğlu Ö.  
2nd International Conference on Green Chemistry and Sustainable Engineering Rome, 20 - 22 July 2016
- XVIII. **Highly Active and Non Precious Dual Core Ball Type Iron II Cobalt II and Zinc II Phthalocyanine Electrocatalysts for Rechargeable Zinc Air Batteries**  
Özen Ü. E., Doğan E., ÖZER M., ÖZKAYA A. R.  
ICETAS 2016 International Conference on Engineering Technology and Applied Sciences April 21-22, 2016 Afyonkarahisar, Turkey, 21 - 22 April 2016
- XIX. **Electrocatalytic Oxygen Reducing Performance of Perfluoroalkyl Substituted Mononuclear and Dinuclear Cobalt Phthalocyanines**  
ÖZKAYA A. R., ÖZER M., BEKAROĞLU Ö.  
21st International Symposium on Fluorine Chemistry & 6th International Symposium on Fluorine Technologies, 06 September 2015
- XX. **Catalytic activity and photovoltaic properties of novel 4,4-hexafluoroisopropylidene diphenol based ball type metallophthalocyanines**  
ÖZER M., ÖZKAYA A. R., ALTINDAL A.  
17th International Symposium on Relations between Homogeneous and Heterogeneous Catalysis, Utrecht, Hollanda, 23 August 2015
- XXI. **Catalytic activity and adsorption kinetic of aromatics on novel tetrakis 4,2,8-bis(trifluoromethyl)quinolin-4-yl oxy metallophthalocyanines**  
ÖZER M.  
17th International Symposium on Relations between Homogeneous and Heterogeneous Catalysis, Utrecht, Hollanda, 12 - 15 July 2015
- XXII. **Catalytic activity and adsorption kinetic of aromatics on novel tetrakis 4,2,8-bis(trifluoromethyl)quinolin-4-yl oxy metallophthalocyanines**  
KOÇYIĞIT N., ORMAN E. B., ALTINDAL A., SALİH B., ÖZKAYA A. R., BEKAROĞLU Ö., ÖZER M.  
17th International Symposium on Relations between Homogeneous and Heterogeneous Catalysis, Utrecht, Netherlands, 12 - 15 July 2015
- XXIII. **Synthesis and characterization of ball type metallophthalocyanines based on 4,4-dihydroxytetraphenylmethane having catalytic specialty**  
DOĞAN E., ORMAN E. B., ÖZER M., ÖZKAYA A. R., SALİH B., BEKAROĞLU Ö.  
Challenges in Inorganic and Materials Chemistry (ISACS13). Dublin, Irlanda, 1 - 04 July 2014
- XXIV. **Synthesis and characterization of metallophthalocyanines bridged with 4,4-dihydroxytetraphenylmethane having catalytic specialty**  
ÖZER M., DOĞAN E., ÖZKAYA A. R., BEKAROĞLU Ö.  
5. Ulusal Kataliz Kongresi, Turkey, 23 - 26 April 2014
- XXV. **Synthesis and characterization of alcohol substituted metallophthalocyanines with catalytic features**  
GÜNAY İ., ORMAN E. B., ÖZER M., SALİH B., ÖZKAYA A. R.  
5. Ulusal Kataliz Kongresi, Turkey, 23 - 26 April 2014

- XXVI. **Synthesis and characterization of catalysis based phenoxy alcohol substituted phthalocyanine derivatives**  
YALÇIN H., ORMAN E. B. , ÖZER M., ÖZKAYA A. R. , SALİH B.  
5. Ulusal Kataliz Kongresi, Turkey, 23 - 26 April 2014
- XXVII. **Perfluorodesil Birimleri İçeren Sepet Türü Supramoleküler Metalloftalosiyaninler**  
ÖZER M., ALTINDAL A., ÖZKAYA A. R. , BEKAROĞLU Ö.  
II. Ulusal Anorganik Kimya Kongresi. Elazığ, Türkiye, Turkey, 16 - 19 May 2009
- XXVIII. **Yeni Tip Co II ve Pd II perfluoroalkilftalosiyaninlerin Sentezi Karakterizasyonu ve Katalitik Aktiviteleri**  
ÖZER M., KANI İ., BEKAROĞLU Ö.  
XXII. Ulusal Kimya Kongresi. Mağusa, Kuzey Kıbrıs Türk Cumhuriyeti, Cyprus (Kkct), 6 - 10 October 2008
- XXIX. **The Catalytic Activity of Novel Co II and Pd II perfluoroalkylphthalocyanine in Fluorous biphasic System Benzyl Alcohol Oxidation and First Time Hydrogenation of Olefins by Phthalocyanine**  
ÖZER M., YILMAZ F., ERER H., KANI İ., BEKAROĞLU Ö.  
XVI. International Symposium on Homogenous Catalysis. Florence, Italy, 6 - 11 July 2008
- XXX. **The Investigation of The Electrical Properties of A Newly Synthesized Phthalocyanine Thin Film and The Effect of The Preparation Conditions**  
Aktaş Y., Şen P., Dumlucağ F., Altındal A., Özer M., Bulut M., Bekaroğlu Ö.  
24 th International Physics Congress of Turkish Physical Society, Malatya, Turkey, 28 - 31 August 2007, pp.541
- XXXI. **Yeni Bis pentafluorofenil metoksi Süstitüe Ftalosiyanin Komplekslerinin Sentezi ve Yapısal Karakterizasyonu**  
ÖZER M., BULUT M., BEKAROĞLU Ö.  
XX. Ulusal Kimya Kongresi. Kayseri, Türkiye, Turkey, 4 August - 08 September 2006
- XXXII. **Fonksiyonel Kumarin Taşıyan vic Dioksim Ligandı Metal Kompleksleri ve Spektral Elektrokimyasal Özelliklerinin İncelenmesi**  
ÖZER M., BULUT M., KANDAZ M.  
XX. Ulusal Kimya Kongresi. Kayseri, Türkiye, Turkey, 4 - 08 September 2006
- XXXIII. **The effect of ambient conditions on the impedance spectra of newly synthesized organic semiconductor thin films**  
Aktas Y., Sen P., DUMLUĐAĞ F., Altındal A., ÖZER M., Bulut M., Bekaroglu O.  
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.233-234
- XXXIV. **The Effect of Ambient Conditions on the Impedance Spectra of Newly Synthesised Organic Semiconductor Thin Films**  
Aktaş Y., Şen P., Dumlucağ F., Altındal A., Özer M., Bulut M., Bekaroğlu Ö.  
6th International Conference of the Balkan Physical Union (BPU), İstanbul, Turkey, 22 - 26 August 2006, pp.233
- XXXV. **Sulfonamidlerin Amino Kolonlarla HPLC Analizi**  
ÖZER L., AYDIN A., ÖZER M.  
XIX. Ulusal Kimya Kongresi. Kuşadası İZMİR, TÜRKİYE, Turkey, 30 September - 04 October 2005
- XXXVI. **Yeni Bir Oktanitroftalosiyanin Sentezi ve Karakterizasyonu**  
ÖZER M., BULUT M., BEKAROĞLU Ö.  
XVII Ulusal Kimya Kongresi, Turkey, 18 - 21 September 2003

## Supported Projects

Özer M., Şenoğlu S., Project Supported by Higher Education Institutions, Yeni Tip 2-Dibenzilaminoetoksil Süstitüe, Asetik Asitte Çözünebilen Metalli Ftalosiyaninlerin Sentezi, Karakterizasyonu ve Bazı Spektroanalitik Özelliklerinin İncelenmesi, 2017 - 2019

Özer M., Project Supported by Higher Education Institutions, Yeni Tetrakis 2-Dibenzilaminoetoksil Süstitüe Metalloftalosiyaninlerin Sentezi ve Elektrokimyası, 2017 - 2019

Özer M., Project Supported by Higher Education Institutions, Yeni Alkol Sübstitüsyonlu Metalloftalosiyeninlerin Elektrokimyasal/Elektrokatalitik Uygulamaları, 2017 - 2018

Özer M., Özkaya A. R. , Project Supported by Higher Education Institutions, Lityum İyon ve Metal Hava Pilleri İçin Modifiye Elektrot Geliştirilmesi ve Pil Performanslarının İncelenmesi, 2015 - 2018

Özkaya A. R. , Özer M., Odabaş Z., Orman E. B. , Project Supported by Higher Education Institutions, Çinko-Hava Pilleri İçin Modifiye Elektrot Geliştirilmesi ve Pil Performanslarının İncelenmesi, 2015 - 2018

Özer M., Project Supported by Higher Education Institutions, Özgün çift fonksiyonlu oksijen elektrokatalizörlerinin, M2Pc2-tipi makrohalkaların sentezi karakterizasyonu ve ikincil Zn-O2 pili uygulamalarında kullanımı, 2016 - 2017

Özer M., Koçyiğit N., Project Supported by Higher Education Institutions, Yeni tip yüksek çözünürlüğe sahip florlu ball type metalloftalosiyeninler Sentezi karakterizasyonu ve bazı fiziksel özelliklerinin araştırılması, 2015 - 2017

Özer M., Doğan E., Project Supported by Higher Education Institutions, 4, 4-Dihydroxytetrphenylmethane Köprülü Yeni Tip Ftalosiyenin Bileşiklerinin Sentezi ve Spektroanalitik Karakterizasyonu, 2015 - 2016

Özer M., Günay İ., Project Supported by Higher Education Institutions, Sübstitüe Benzil Alkol Türevli Ftalosiyenin Bileşiklerinin Sentezi ve Spektroanalitik Karakterizasyonu, 2014 - 2015

Coşkun M., Özer M., Altındal A., TÜBİTAK Project, Organik İnorganik Nanotellerin Sentezi ve Analizi TÜBİTAK 1002 Hızlı Destek Projesi, 2013 - 2014

Özer M., Project Supported by Higher Education Institutions, Dimerik Yapılı ve İki Köprü Grubu CH2 ile Birbirine Bağlı Ftalosiyenin Komplekslerinin Sentezi ve Karakterizasyonu, 2012 - 2014

Özer M., Sesal N. C. , Altındal A., Project Supported by Higher Education Institutions, Enterococcus spp türü bakterilerin algılanmasına yönelik biyosensörlerin geliştirilmesi, 2009 - 2012

Özkaya A. R. , Bulut M., Odabaş Z., Özer M., TÜBİTAK Project, Ftalosiyenin Komplekslerinin Oksijen İndirgenmesindeki Elektrokatalitik Aktivitelerinin Yakıt Pillerinde Uygulanabilirlik Yönünden İncelenmesi, 2008 - 2010

Özer M., TÜBİTAK Project, Fluorlu Alkil Grupları İçeren Yeni Tip Ftalosiyeninlerin Sentezi ve Özelliklerinin İncelenmesi, 2007 - 2008

Özer M., Project Supported by Higher Education Institutions, Yeni bir bis pentafluorofenil metoksi Sübstitüe Ftalosiyenin Komplekslerinin Sentezi Karakterizasyonu ve Bunların Elektrokimyasal ve Elektriksel Özelliklerinin İncelenmesi, 2006 - 2007

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