

## Assoc. Prof. Fatma AYTAN KILIÇARSLAN

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### Education Information

Doctorate, Yildiz Technical University, Fen Bilimleri Enstitüsü/Kimya Bölümü, Anorganik Kimya, Turkey 1998 - 2009

Postgraduate, Yildiz Technical University, Fen Bilimleri Enstitüsü/Kimya Bölümü, Analitik Kimya, Turkey 1995 - 1998

Undergraduate, Yildiz Technical University, Kimya Bölümü, Turkey 1990 - 1995

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Periferel konumlarda hacimli süstitüent içeren porfirazinler, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Kimya Bölümü/Anorganik Kimya Anabilim Dalı, 2009

Postgraduate, Lisinoprilin sulu çözeltideki kararlılığına pH etkisinin sıvı kromatografik incelenmesi, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Kimya Bölümü/Analitik Kimya Anabilim Dalı, 1995

### Research Areas

Chemistry, Inorganic Chemistry, Inorganic Ring Compounds, Novel Ligands, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2018 - Continues

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

- I. **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 (Journal Indexed in SCI)
- II. **Effect of Different -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 (Journal Indexed in SCI)

- III. **Synthesis, characterization of new phthalocyanines and investigation of photophysical and photochemical properties**  
AYTAN KILIÇARSLAN F., ERDOĞMUŞ A., YAŞA ATMACA G.  
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.123, pp.30-42, 2017 (Journal Indexed in SSCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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., Firat Y., Okutan M., Erden İ.  
Dyes and Pigments, vol.134, pp.77-82, 2016 (Journal Indexed in SCI Expanded)
- VII. **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., Erdoğmuş A., Erden İ.  
JOURNAL OF CHEMICAL RESEARCH, pp.250-254, 2016 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **Synthesis, spectral and photophysical investigation of porphyrazines with eight 3-quinolinecarboxy esters**  
Kilicarslan F., ERDOĞMUŞ A., Coskun N. Y., Yalcin S. M., Gül A.  
JOURNAL OF COORDINATION CHEMISTRY, vol.66, no.24, pp.4316-4329, 2013 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **[2,3,7,8,13,14,17,18-Octakis(ethylsulfanyl)-5,10,15,20-porphyrinato]zinc(II)**  
AKKURT M., Coskun N. Y., Kilicaslan F., Yalcin S. M., Buyukgungor O., Gül A.  
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.66, 2010 (Journal Indexed in SCI)
- XIII. **Synthesis Absorption and Fluorescence Spectral Investigation of Porphyrazines with Eight 2 Naphthalenecarboxy Esters**  
NACİYE Y. C., ATAK O., AYTAN KILIÇARSLAN F., MANAV YALÇIN S., GÜL A.  
Polish Journal Of Chemistry, vol.82, pp.2039-2047, 2008 (Journal Indexed in SCI)
- XIV. **High pressure liquid chromatographic investigation of the pH and temperature effect on the solution stability of lisinopril**  
AYTAN F., ALPDOĞAN G., SUNGUR S.  
REVIEWS IN ANALYTICAL CHEMISTRY, vol.26, no.1, pp.55-64, 2007 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **'SYNTHESIS, CHARACTERIZATION, SPECTRAL, AGGREGATION AND FLUORESCENCE AND IMPROVED PHOTOPHYSICAL PROPERTIES OF (ethylsulfanyl) PORPHYRAZINES CONTAINING  $\beta$ -THIOETHER APPENDED [(bpy)<sub>2</sub>RuCl<sub>2</sub>**  
Aytan Kılıçarslan F., Erdoğan A., Yalçın S. S. , Gül A.  
Sigma J Eng & Nat Sci, vol.36, no.2, pp.487-499, 2018 (International Refereed University Journal)
- II. **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 (Other Refereed National Journals)
- III. **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 (International Refereed University Journal)
- IV. **Effect of Au Grown on GaAs Substrate for Applying as Counter Electrode on Conversion Efficiency of Dye-Sensitized Solar Cells**  
GURBUZ O., KIRSOY A., Kılıçarslan F., ERDEN İ., BOZDOĞAN A., Firat Y.  
ENERGY AND ENVIRONMENT FOCUS, vol.5, no.4, pp.268-273, 2016 (Journal Indexed in ESCI)
- 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**  
Kılıçarslan F., Erden İ., Gurbuz O., Erdoğan A., Okutan M.  
ENERGY AND ENVIRONMENT FOCUS, vol.5, pp.181-186, 2016 (Journal Indexed in ESCI)
- VI. **New Soluble Bis 4 fluorophenyl methoxy Substituted Phthalocyanines Synthesis Characterization Spectral Aggregation and Fluorescence Studies**  
AYTAN KILIÇARSLAN F.  
Journal of Chemical Engineering and Chemistry Research, vol.2, pp.706-718, 2015 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Synthesis, characterization, spectral and photophysical properties of new phthalocyanines bearing Schiff base**  
AYTAN KILIÇARSLAN F., YÖRÜR GÖRECİ Ç., KIRPI E., ERDOĞMUŞ A.  
1st International Balkan Chemistry Congress, 17 - 20 September 2018
- II. **Synthesis, characterization, spectral and photophysical properties of new phthalocyanines bearing schiff base**  
Aytan Kılıçarslan F., Yörür Göreci Ç., Kirpi E., Erdoğan A.  
First International Balkan Chemistry Congress, Edirne, Turkey, 17 - 20 September 2018, pp.1
- III. **Biologically Important Mononuclear Organogallium Complexes**  
Aytan Kılıçarslan F., Yörür Göreci Ç., Altaş N., Kirpi E.  
1st International Balkan Chemistry Congress, Edirne, Turkey, 17 - 20 September 2018, pp.184
- IV. **Biologically Important mononuclear organogallium complexes**  
Altaş N., Aytan Kılıçarslan F., Yörür Göreci Ç., Kirpi E.  
1St International Balkan Chemistry Congress, Edirne, Turkey, 17 - 20 September 2018, pp.184
- V. **Synthesis and photophysicochemical properties of fluoro functionality zinc phthalocyanine for photodynamic effects**  
Aytan Kılıçarslan F., Dülger Kutlu Ö., Erdoğan A.  
Third GTU Photodynamic Day, İstanbul, Turkey, 09 May 2018, pp.1

- VI. **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
- VII. **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
- VIII. **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
- IX. **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
- X. **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
- XI. **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
- XII. **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
- XIII. **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
- XIV. **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
- XV. **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
- XVI. **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
- XVII. **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
- XVIII. **The Investigation of Photophysical Properties of Porphyrazine Metal Complexes**  
Karaca Balta D., Aytan Kılıçarslan F., Arsu N., Manav Yalçın S., Gül A.  
European Polymer Congress (EPF 2013), Pistoia, Italy, 16 - 21 June 2013, pp.58
- XIX. **Periferal 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. **Porfirazınların Metal Komplekslerinin Fotofiziksel Özelliklerinin İncelenmesi**  
AYTAN KILIÇARSLAN F., Arsu N., Manav Yalçın S., Gül A.  
IV. Ulusal Anorganik Kimya Kongresi, Gaziosmanpaşa Üniversitesi, 01 June 2013
- XXI. **Synthesis and characterization of sandwich- type europium (III) phthalocyanines with different substituent**  
Erden İ., Özdemir M., Yaşa Atmaca G., Aytan Kılıçarslan F., Erdoğan A.  
15th JCF-Frühjahrssymposium, Berlin, Germany, 06 March 2013, pp.256
- XXII. **Periferel Konumlarda Bromoalkilto Bulunduran Porfirazin Türevlerinin Fotofiziksel Özelliklerinin İncelenmesi**  
AYTAN KILIÇARSLAN F., ERDOĞMUŞ A., MANAV YALÇIN S., GÜL A.  
26. Ulusal Kimya Kongresi, Muğla Sıtko Koçman Üniversitesi, Muğla, Turkey, 1 - 06 October 2012
- XXIII. **L-Tirozin'in Magnezyum Kompleksinin Fotofiziksel Özellikleri**  
GÜRSU H., CANLICA M., KOYUNCU İ., AYTAN KILIÇARSLAN F.  
YTÜ II. Ulusal Nanoteknoloji Kongresi, İstanbul, Turkey, 27 September 2012, pp.1
- XXIV. **Periferel Konumlarda Bromoalkilto Bulunduran Porfirazınların Termik Özelliklerinin Belirlenmesi**  
AYTAN KILIÇARSLAN F., YALÇIN S. S. , GÜL A.  
Paintİstanbul-Boya Sanayi ve Yardımcı Maddeler Kongre ve Fuarı, İstanbul, Turkey, 13 September 2012, pp.113
- XXV. **A Zinc Phthalocyanine: Synthesis and Characterization**  
AYTAN KILIÇARSLAN F., CANLICA M.  
Paintİstanbul-Paint & Coatings Industry Raw Material, Auxiliary Products Exhibition & Congress, İstanbul, Turkey, 13 September 2012, pp.71
- XXVI. **Hippürik Asidin Silisyum Kompleksinin Sentezi, Fotofiziksel Özellikleri ve Kararlılık Sabitinin Tayini**  
CANLICA M., Aslan D., AYTAN KILIÇARSLAN F., KOYUNCU İ.  
II. Eser Analiz Çalıştayı, Trabzon, Turkey, 27 June 2012, pp.99
- XXVII. **Bir Alüminyum Kompleksinin Spektroskopik Karakterizasyonu, Fotofiziksel Özellikleri, Kararlılık Sabitinin Tayini ve Güneş Pili Özelliğinin İncelenmesi**  
AYTAN KILIÇARSLAN F., Aslan D., CANLICA M., KOYUNCU İ.  
II. Eser Analiz Çalıştayı, Trabzon, Turkey, 27 June 2012, pp.73
- XXVIII. **Photophysical Properties of Free-Base, MgII(ethylsulfanyl)-Porphyrine**  
Karaca Balta D., Aytan Kılıçarslan F., Arsu N., Yalçın S. S. , Gül A.  
APME-2011 International Symposium on Advanced Polymers via Macromolecular Engineering , Nevşehir, Turkey, 5 - 08 November 2011, pp.204
- XXIX. **'Kanser Tedavisinde Alternatif Yöntem Olarak Fotodinamik Terapi (PDT): Işığa Duyarlı Ftalosiyanınlar**  
AYTAN KILIÇARSLAN F., CANLICA M.  
I.Ulusal Kimya Eğitim- Öğretim Kongresi, İstanbul, Turkey, 21 June 2011, pp.29
- XXX. **Synthesis of non-symmetric mono B-aryl substituted complexes via Suzuki cross-coupling reactions on porphyrine**  
HAYIROV H., YILMAZ COŞKUN N., AYTAN KILIÇARSLAN F., YALÇIN S. S. , GÜL A.  
11th Eurasia Conference on Chemical Sciences, The Dead Sea, Jordan, 06 October 2010, pp.10
- XXXI. **Etilto Sülfanil Pofirazınların ve Metal Komplekslerinin Termal Özelliklerinin İncelenmesi**  
AYTAN KILIÇARSLAN F., YILMAZ COŞKUN N., YALÇIN S. S. , GÜL A.  
Paintİstanbul-Boya Sanayi ve Yardımcı Maddeler Kongre ve Fuarı, İstanbul, Turkey, 23 September 2010, pp.291
- XXXII. **Periferel Konumlarda Metil Fluoren İçeren Porfirazınların ve Metal Komplekslerinin Sentezi**  
YILMAZ COŞKUN N., AYTAN KILIÇARSLAN F., HAYIROV H., YALÇIN S. S. , GÜL A.  
24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June 2010, pp.1
- XXXIII. **Synthesis of Metal-free and Zn(II) Phthalocyanines with p-tert-butyl-25,26,27-trimethoxy-28-hydroxycalix[4]arene**

- HAYIROV H., YILMAZ COŞKUN N., AYTAN KILIÇARSLAN F., YALÇIN S. S.  
The 10th International Meeting in Inorganic Chemistry, Palermo, Italy, 01 July 2009, pp.77
- XXXIV. **'Asetilen Sübstitüe Asimetrik Porfirazinlerin Sentez**  
HAYIROV H., YILMAZ COŞKUN N., AYTAN KILIÇARSLAN F., YALÇIN S. S. , GÜL A.  
Cumhuriyet Üniversitesi- 23 Ulusal Kimya Kongresi, Sivas, Turkey, 16 June 2009, pp.76
- XXXV. **Asimetrik Porfirazinlerin Sentezi ve Metal Komplekleri**  
AYTAN KILIÇARSLAN F., YILMAZ COŞKUN N., YALÇIN S. S. , GÜL A.  
Doğu Akdeniz Üniversitesi- XXII Kimya Kongresi, Mağusa, Cyprus (Kktc), 06 October 2008, pp.52
- XXXVI. **3-Kinolinkarboksi esterlerini İçeren Porfirazinlerin Metal komplekslerinin Sentezi**  
YILMAZ COŞKUN N., AYTAN KILIÇARSLAN F., YALÇIN S. S. , GÜL A.  
İnönü Üniversitesi- 21. Ulusal Kimya Kongresi, Malatya, Turkey, 23 August 2007, pp.10
- XXXVII. **Yeni Porfirazin Türevlerinin Sentezi ve Karakterizasyonu**  
ATAK O., COŞKUN YILMAZ N., AYTAN KILIÇARSLAN F., YALÇIN S. S. , GÜL A.  
Kafkas Üniversitesi- XVIII. Ulusal Kimya Kongresi, Kars, Turkey, 05 July 2004, pp.387
- XXXVIII. **High Pressure Liquid Chromatographic Investigation Of The pH Effect On The Solution Stability Of Lisinopril**  
AYTAN KILIÇARSLAN F., ALPDOĞAN G., SUNGUR S.  
2nd Black Sea Basin Conference on Analytical Chemistry, İstanbul, Turkey, 14 September 2003, pp.76
- XXXIX. **Complexation Properties of 1,3-Dimethoxy 2,4-Dithiocalix[4]arene**  
YILMAZ COŞKUN N., AYTAN KILIÇARSLAN F., AŞCI B., YALÇIN S. S.  
2nd Black Sea Basin Conference on Analytical Chemistry, İstanbul, Turkey, 14 September 2003, pp.152
- XL. **Synthesis of new vic-Dioksime Derivatives of Monothiocalix[4]arene**  
AYTAN KILIÇARSLAN F., HAYIROV H., YILMAZ COŞKUN N., MANAV YALÇIN S.  
Mustafa Kemal University- International Organic Chemistry Meeting, Hatay, Turkey, 25 March 2002, pp.37

## Supported Projects

- AYTAN KILIÇARSLAN F., TÜBİTAK Project, MODİFİYE FTALOSİYANİNLERİN GÜNEŞ PİLİ UYGULANABİLİRLİĞİNİN ARAŞTIRILMASI, 2017 - Continues
- AYTAN KILIÇARSLAN F., YÖRÜR GÖRECI Ç., ALTAŞ N., KİRPİ E., Project Supported by Higher Education Institutions, BİYOLOJİK OLARAK ÖNEMLİ MONONÜKLEAR ORGANOGALLI KOMPLEKSLERİ, 2016 - 2019
- Aytan Kılıçarslan F., Yörür Göreci Ç., Altaş N., Kirpi E., Project Supported by Higher Education Institutions, Biyolojik Öneme Sahip Mononükleer Organogalyum Kompleksleri, 2016 - 2019
- AYTAN KILIÇARSLAN F., Project Supported by Higher Education Institutions, FTALOSİYANİNLERİN FOTOFİZİKSEL, FOTOKİMYASAL VE ELEKTROKİMYASAL ÖZELLİKLERİNİN İNCELENMESİ VE FOTO DİNAMİK TERAPİDE UYGULANABİLİRLİĞİNİN ARAŞTIRILMASI, 2014 - 2016
- AYTAN KILIÇARSLAN F., Project Supported by Higher Education Institutions, Yeni Çözünür Ftalosiyanın Türevlerinin Sentezi, Fotofiziksel ve Fotokimyasal Özellikleri, 2011 - 2014
- YALÇIN S. S. , AYTAN KILIÇARSLAN F., Other Supported Projects, Periferal Konumlarda Hacimli Sübstitüentler İçeren Porfirazinler, 2003 - 2006

## Citations

Total Citations (WOS):62

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