

## **Assoc. Prof. Hacer Yasemin Yenilmez**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: N-1682-2014

ScopusID: 55772233200

Yoksis Researcher ID: 152274

### **Education Information**

Doctorate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2004 - 2010

Postgraduate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Kimya (Yl), Turkey 2000 - 2004

Undergraduate, İstanbul Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1995 - 2000

### **Foreign Languages**

English

### **Dissertations**

Doctorate, Periferal donör gruplar içeren ftalosiyaniinlerle multimetallik kompleksler, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), 2010

Postgraduate, alfa-naftiloksi sübstitüentli yeni ftalsiyaniinlerin sentezi ve özelliklerinin incelenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Yl), 2004

### **Research Areas**

Natural Sciences

### **Academic Titles / Tasks**

Research Assistant, İstanbul Technical University, Fen-Edebiyat, Kimya, 2003 - Continues

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

- I. **Design of N-heterocycle based-phthalonitrile/metal phthalocyanine-silver nanoconjugates for cancer therapies**

Öney Ö. İ., Yenilmez H. Y., BAHAR D., Öztürk N. F., Altuntaş Bayır Z.

- Dalton Transactions, vol.52, no.37, pp.13119-13128, 2023 (SCI-Expanded)
- II. **Silicon Phthalocyanines as Anti-infectious, Antioxidant, and Anticancer Agents**  
Yenilmez H. Y., Farajzadeh N., Tollu G., KUŞÇULU N., BAHAR D., Özdemir S., Bayır Z.  
ChemistrySelect, vol.8, no.19, 2023 (SCI-Expanded)
- III. **Effect of Axial Ligand Length on Biological and Anticancer Properties of Axially Disubstituted Silicon Phthalocyanines**  
Yenilmez H. Y., Farajzadeh N., Güler Kuşçulu N., BAHAR D., Özdemir S., Tollu G., GÜLLÜ M., Altuntaş Bayır Z.  
Chemistry and Biodiversity, vol.20, no.4, 2023 (SCI-Expanded)
- IV. **Sonophotochemical and photochemical efficiency of thiazole-containing metal phthalocyanines and their gold nanoconjugates**  
Farajzadeh N., Yenilmez H. Y., YAŞA ATMACA G., ERDOĞMUŞ A., Altuntaş Bayır Z.  
Turkish Journal of Chemistry, vol.47, no.5, pp.1085-1102, 2023 (SCI-Expanded)
- V. **Anticancer activity of novel silicon phthalocyanines against the colorectal adenocarcinoma cell line (DLD-1)**  
Farajzadeh N., KUŞÇULU N., Yenilmez H. Y., BAHAR D., Bayır Z.  
NEW JOURNAL OF CHEMISTRY, vol.46, no.41, pp.19863-19873, 2022 (SCI-Expanded)
- VI. **Anticancer and biological properties of new axially disubstituted silicon phthalocyanines**  
Farajzadeh N., KUŞÇULU N., Yenilmez H. Y., BAHAR D., Bayır Z.  
DALTON TRANSACTIONS, vol.51, pp.7539-7550, 2022 (SCI-Expanded)
- VII. **Synthesis, electrochemistry, and electrocatalytic activity of thiazole-substituted phthalocyanine complexes**  
Demir F., Yenilmez H. Y., KOCA A., Bayır Z.  
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, vol.26, no.3, pp.761-772, 2022 (SCI-Expanded)
- VIII. **New phthalonitrile/metal phthalocyanine-gold nanoparticle conjugates for biological applications**  
Aftab J., Farajzadeh N., Yenilmez H. Y., ÖZDEMİR S., GONCA S., Altuntas Bayır Z.  
DALTON TRANSACTIONS, vol.51, pp.4466-4476, 2022 (SCI-Expanded)
- IX. **The design and synthesis of metallophthalocyanine-gold nanoparticle hybrids as biological agents**  
Farajzadeh N., Aftab J., Yenilmez H. Y., ÖZDEMİR S., GONCA S., Bayır Z.  
NEW JOURNAL OF CHEMISTRY, vol.46, pp.5374-5384, 2022 (SCI-Expanded)
- X. **Photosensitive field effect transistor based on metallo-phthalocyanines containing (4-pentylphenyl) ethynyl moieties**  
Yenilmez H. Y., ŞAHİN A. N., ALTINDAL A., Bayır Z.  
SYNTHETIC METALS, vol.273, 2021 (SCI-Expanded)
- XI. **Investigation of the photoconductive properties of thiophene substituted metallo-phthalocyanines**  
Kumral E., Yenilmez H. Y., Albayrak S., Şahin A. N., Altindal A., Bayır Z.  
DALTON TRANSACTIONS, vol.49, pp.9385-9392, 2020 (SCI-Expanded)
- XII. **Sensing alcohol vapours with novel unsymmetrically substituted metallophthalocyanines**  
Polat M. P., Akyuz D., Yenilmez H. Y., KOCA A., ALTINDAL A., Bayır Z.  
DALTON TRANSACTIONS, vol.48, no.25, pp.9194-9204, 2019 (SCI-Expanded)
- XIII. **Metallo-phthalocyanines containing thiazole moieties: Synthesis, characterization, electrochemical and spectroelectrochemical properties and sensor applications**  
Demir F., Yenilmez H. Y., KOCA A., Bayır Z.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.832, pp.254-265, 2019 (SCI-Expanded)
- XIV. **Metallophthalocyanines bearing four 3-(pyrrol-1-yl)phenoxy units as photosensitizer for dye-sensitized solar cells**  
Polat M. P., Yenilmez H. Y., KOCA A., ALTINDAL A., Bayır Z.  
DYES AND PIGMENTS, vol.156, pp.267-275, 2018 (SCI-Expanded)
- XV. **The synthesis and electrochemical behaviour of carbazole-substituted phthalocyanines**  
Yenilmez H. Y., Ustamehmetoğlu B., Sezer E., Bayır Z.  
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, vol.22, no.2, pp.505-517, 2018 (SCI-Expanded)
- XVI. **Phthalocyanines formed from several precursors: synthesis, characterization, and comparative**

- fluorescence and quinone quenching**  
Karaoglu H. R., Yenilmez H. Y., Koçak M.  
JOURNAL OF COORDINATION CHEMISTRY, vol.71, no.15, pp.2340-2357, 2018 (SCI-Expanded)
- XVII. **Synthesis of quaternized zinc(II) and cobalt(II) phthalocyanines bearing pyridine-2-yl-ethynyl groups and their DNA binding properties**  
MOEINI ALISHAH M., Yenilmez H. Y., Özçeşmeci İ., Sesalan B. Ş., Altuntas Bayir Z.  
TURKISH JOURNAL OF CHEMISTRY, vol.42, no.2, pp.572-585, 2018 (SCI-Expanded)
- XVIII. **Electrochemical, spectroelectrochemical, and dielectric properties of metallophthalocyanines bearing redox active cobalt and manganese metal centres**  
UZUNMEHMETOGLU H. Z., Yenilmez H. Y., Kaya K., Koca A., ALTINDAL A., Bayir Z. A.  
INORGANICA CHIMICA ACTA, vol.459, pp.51-62, 2017 (SCI-Expanded)
- XIX. **Carbazole-substituted metallo-phthalocyanines: Synthesis, electrochemical, and spectroelectrochemical properties**  
Ipsiz O., Yenilmez H. Y., KAYA K., Koca A., Bayir Z.  
SYNTHETIC METALS, vol.217, pp.94-101, 2016 (SCI-Expanded)
- XX. **Synthesis, electrochemical and spectroelectrochemical properties of thiazole-substituted phthalocyanines**  
Duruk E. G., Yenilmez H. Y., Koca A., Bayir Z.  
SYNTHETIC METALS, vol.209, pp.361-368, 2015 (SCI-Expanded)
- XXI. **Electrochemical, spectroelectrochemical characterization and electropolymerization of 2-(4-methyl-1,3-thiazol-5-yl) ethoxy-substituted manganese and indium phthalocyanines**  
Yenilmez H. Y., AKDAG O., SEVİM A. M., Koca A., Bayir Z.  
POLYHEDRON, vol.99, pp.244-251, 2015 (SCI-Expanded)
- XXII. **Microwave-assisted synthesis of novel non-peripherally substituted metallophthalocyanines and their sensing behaviour for a broad range of Lewis bases**  
Duruk E. G., Yenilmez H. Y., ALTINDAL A., BAYIR Z. A.  
DALTON TRANSACTIONS, vol.44, no.21, pp.10060-10068, 2015 (SCI-Expanded)
- XXIII. **Synthesis, electrochemical and spectroelectrochemical properties of novel phthalocyanine complexes of manganese, titanium and indium**  
Sevim A. M., Yenilmez H. Y., Aydemir M., Koca A., Bayir Z.  
ELECTROCHIMICA ACTA, vol.137, pp.602-615, 2014 (SCI-Expanded)
- XXIV. **Microwave-assisted synthesis of novel nonperipherally substituted metallophthalocyanines bearing (7-(trifluoromethyl)quinolin-4-yl)oxy groups**  
Evren D., YENİLMEZ H. Y., BURAT A. K.  
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.6, pp.1174-1184, 2014 (SCI-Expanded)
- XXV. **Synthesis and characterization of novel 2-{[2-(dimethylamino)ethyl] (methyl)aminol} ethoxy-substituted metallophthalocyanines**  
Zengin H., YENİLMEZ H. Y., BURAT A. K., BAYIR Z. A.  
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.6, pp.1094-1101, 2014 (SCI-Expanded)
- XXVI. **Synthesis and characterization of novel 2 2 dimethylamino ethyl methyl amino ethoxy substituted metallophthalocyanines**  
ZENGİN H., YENİLMEZ H. Y., KALKAN BURAT A., Bayir Z.  
turkish journal of chemistry, vol.34, pp.1094-1101, 2014 (SCI-Expanded)
- XXVII. **Synthesis and photophysical properties of novel (trifluoromethyl) phenylethynyl-substituted metallophthalocyanines**  
Sevim A. M., Yenilmez H. Y., BAYIR Z. A.  
POLYHEDRON, vol.62, pp.120-125, 2013 (SCI-Expanded)
- XXVIII. **Synthesis and photophysics of new metallo phthalocyanine complexes with thiazole groups and their fluorescence quenching studies with benzoquinone**  
Yenilmez H. Y., Sevim A. M., BAYIR Z. A.  
SYNTHETIC METALS, vol.176, pp.11-17, 2013 (SCI-Expanded)

- XXIX. **Peripherally tetra-palladated phthalocyanines**  
Yenilmez H. Y., OKUR A. I., Gul A.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.692, no.5, pp.940-945, 2007 (SCI-Expanded)
- XXX. **Synthesis and characterization of metal-free and metallo phthalocyanines with four pendant naphthoxy-substituents**  
Yenilmez H. Y., Ozcesmeci I., OKUR A., GUL A.  
POLYHEDRON, vol.23, no.5, pp.787-791, 2004 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Comparison of Electrochemical Polymerization and Electrochemical Characterization of Carbazole Substituted Phthalocyanines**  
Boz A., YENİLMEZ H. Y., USTAMEHMETOĞLU B., Bayır Altuntaş Z.  
İstanbul International Organic Electronic Symposium, 2 - 04 December 2019
- II. **Karbazol Sıbstitüye Asimetrik Kobalt Ftalosiyinin**  
YENİLMEZ H. Y., Kumral E., Gümrükçü S., USTAMEHMETOĞLU B., BAYIR Z.  
XXXI. Ulusal Kimya Kongresi, Turkey, 10 - 13 September 2019
- III. **Metallophthalocyanines Non peripherally Substituted with 4 Phenylthiazole 2 thiol**  
Bayır Z., ZENGİN H., Yenilmez H. Y., KOCA A.  
International Symposium on Macroyclic and Supramolecular Chemistry (2016), Seul, South Korea, 5 - 10 July 2016, pp.863
- IV. **Non peripherally Pyrrole substituted Phthalocyanines**  
Pamukçu M., Yenilmez H. Y., Bayır Z.  
International Symposia on Metal Complexes – ISMEC (2016), Baeselona, Spain, 5 - 10 June 2016, pp.421
- V. **DNA Binding Properties of Pyridin 3 yl Substituted Water Soluble Phthalocyanines**  
Yenilmez H. Y., Bayır Z., MOEINI ALISHAH M.  
International Symposia on Metal Complexes – ISMEC (2016), Barselona, Spain, 5 - 10 June 2016, pp.125
- VI. **Karbazol Sıbstitüye Ftalosiyinler**  
Bayır Z., IPSİZ O., Yenilmez H. Y.  
V. Anorganik Kimya Kongresi, Mersin, Turkey, 22 - 25 April 2015, pp.84
- VII. **Karbozol Sıbstitüye Ftalosiyinler**  
BAYIR Z., İPSİZ Ö., YENİLMEZ H. Y.  
V. Ulusal Anorganik Kimya Kongresi, Mersin, Turkey, 22 - 25 April 2015
- VIII. **Soluble phthalocyanines containing carbazole moieties**  
Yenilmez H. Y., Sezer E., Ustamehmetoğlu B., Bayır Z.  
Eighth International Conference on Porphyrins and Phthalocyanines, İstanbul, Turkey, 22 - 27 June 2014, pp.563
- IX. **Microwave Assisted Synthesis of A Novel Metallo- Phthalocyanines Containing Non-Peripheral 2-(4-methyl-1,3-thiazol-5-yl)ethoxy Substituents**  
DURUK E. G., Yenilmez H. Y., Bayır Z.  
Eighth International Conference on Porphyrins and Phthalocyanines, İstanbul, Turkey, 22 - 27 June 2014, pp.535
- X. **Synthesis and Photophysical Properties of Octasubstituted Zinc II Phthalocyanine**  
Duruk E. G., YENİLMEZ H. Y., BAYIR Z.  
Eighth International Conference on Porphyrins and Phthalocyanines, İstanbul, Turkey, 22 - 27 June 2014
- XI. **Synthesis and Photophysical Properties of Octasubstituted Zinc(II)Phthalocyanine**  
PEKBELGİN KARAOĞLU H. R., YENİLMEZ H. Y., KOÇAK M.  
International Conference on Porphyrins and Phthalocyanines, 22 - 27 June 2014
- XII. **Microwave Assisted Synthesis Of A Novel Manganese And Indium Phthalocyanines Containing Peripheral 2-(4-methyl-1,3-thiazol-5-yl)ethoxy Substituents**  
AKDAG O., Yenilmez H. Y., SEVİM A. M., Bayır Z.

- IUPAC 2013 44th World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013, pp.750
- XIII. **Synthesis And Characterization Of Novel (trifluoromethyl)phenylethynyl-substituted Metallophthalocyanines**  
SEVİM A. M., Yenilmez H. Y., AKDAG O., Bayır Z.  
IUPAC 2013 44th World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013, pp.1110
- XIV. **Microwave Assisted Synthesis of a Novel Manganese Phthalocyanine Containing Peripheral 1H Benzoimidazol 2 sulfanyl Substituents**  
YENİLMEZ H. Y., GÜL A.  
13th Belgian Organic Synthesis Symposium, Leuven, Belgium, 15 - 20 July 2012
- XV. **Tetrasubstituted oxotitanium iv phthalocyanine derived from 8 hydroxyquinoline and its quaternised compound**  
YENİLMEZ H. Y., GÜL A., CİHAN A.  
14th IUPAC International Symposium on MacroMolecular Complexes, Helsinki, Finland, 14 - 17 August 2011
- XVI. **Soluble phthalocyanines containing ethoxyethoxy moieties**  
YENİLMEZ H. Y., ALİ İHSAN O., GÜL A.  
3rd EuCheMS Chemistry Congress, Nürnberg, Germany, 29 August - 02 September 2010
- XVII. **Phthalocyanines with naphthoxy and chloro groups**  
YENİLMEZ H. Y., ALİ İHSAN O., GÜL A.  
3rd EuCheMS Chemistry Congress, Nürnberg, Germany, 29 August - 02 September 2010
- XVIII. **Paladyumlanmış Asimetrik Ftalosianinlerin Sentezi**  
YENİLMEZ H. Y., OKUR A. İ., GÜL A.  
XXII. Ulusal Kimya Kongresi, Cyprus (Kktc), 6 - 10 October 2008
- XIX. **Synthesis of phenylazonaphthyl substituted unsymmetrical phthalocyanines**  
YENİLMEZ H. Y., ALİ İHSAN O., GÜL A.  
Fifth International Conference on Porphyrins and Phthalocyanines, Moscow, Russia, 6 - 11 July 2008
- XX. **Fenilazonaftalen Sübstüe Asimetrik Ftalosianinlerin Sentezi**  
YENİLMEZ H. Y., OKUR A. İ., GÜL A.  
XXI. Ulusal Kimya Kongresi, Malatya, Turkey, 23 - 27 August 2007
- XXI. **Naftilazo Grupları İçeren Tetra Sübstüe Ftalosianinler**  
YENİLMEZ H. Y., Okur A. İ., GÜL A.  
XX. Ulusal Kimya Kongresi, Kayseri, Turkey, 4 - 08 September 2006
- XXII. **Tetra Substituted Phthalocyanines with Naphthylazo Moieties**  
YENİLMEZ H. Y., ALİ İHSAN O., GÜL A.  
International Symposium on Molecular Materials based on Coordination and Organometallic Chemistry, Lyon, France, 7 - 10 June 2006
- XXIII. **Paladyum Azobenzen Kompleksi İçeren Ftalosianinlerin Sentezi**  
YENİLMEZ H. Y., Okur A. İ., GÜL A.  
XIX. Ulusal Kimya Kongresi, Turkey, 30 September - 04 October 2005
- XXIV. **Synthesis and Characterization of Metal free and Metallo Phthalocyanines with Four Pendant Palladated Azobenzene Complexes**  
YENİLMEZ H. Y., OKUR A. İ., GÜL A.  
XXX. International Symposium on Macrocyclic Chemistry, Dresden, Germany, 17 - 21 July 2005
- XXV. **Synthesis And Properties Of Novel 4 4 Z Or E Phenylidiazetyl 1 Naphthyl Oxy Substituted Phthalocyanines**  
YENİLMEZ H. Y., ALİ İHSAN O., GÜL A.  
Third International Conference on Porphyrins and Phthalocyanines, New Orleans, United States Of America, 11 - 16 July 2004
- XXVI. **Naftiloksi Sübstituentli Yeni Ftalosianinlerin Sentezi**  
YENİLMEZ H. Y., GÜL A., Okur A. İ.  
XVIII. Ulusal Kimya Kongresi, Turkey, 5 - 09 July 2004

## **Supported Projects**

Farajzadeh N., Bayır Z., Yenilmez H. Y., TUBITAK Project, İndirgenmiş Grafen Oksit/Metalli Ftalosiyinin Polimer Kompozitlerinin Hazırlanması ve Süperkapasitör Uygulamaları, 2022 - 2025

Bayır Z., Yenilmez H. Y., ALTINDAL A., TUBITAK Project, Foto Transistör Uygulamaları İçin Yakın Infrared Bölgede De Absorpsiyon Bandına Sahip Ftalosiyinlerin Sentezi ve Karakterizasyonu, 2019 - 2021

Yenilmez H. Y., Project Supported by Higher Education Institutions, Pridin-3-il sübstítüe suda çözünür ftalosiyinlerin DNA-bağlanma özellikleri, 2016 - 2018

Yenilmez H. Y., Project Supported by Higher Education Institutions, Karbazol Grubları İçeren Çözünür Ftalosiyinler, 2014 - 2018

Yenilmez H. Y., Project Supported by Higher Education Institutions, Mikrodalga Yardımıyla Periferal 1H Benzoimidazol 2 İl Sülfanil Sübstítuentleri İçeren Yeni Mangan Ftalsiyinin Sentezi, 2012 - 2018

Yenilmez H. Y., Project Supported by Higher Education Institutions, 8-Hidroksikinolinden Türeyen Tetrasübstítüe Oksotitanyum (IV) Ftalosiyinin ve Kuaterner Bileşigi, 2011 - 2018

Bayır Z., Yenilmez H. Y., TUBITAK Project, Polimerleşebilir Sübstítuentler İçeren Ftalosiyinlerin İletkenlik Gaz Sensör ve Elektrokatalitik Özellikleri, 2015 - 2017

## **Metrics**

Publication: 58  
Citation (WoS): 239  
Citation (Scopus): 345  
H-Index (WoS): 9  
H-Index (Scopus): 11

## **Scholarships**

Yurtdışı araştırma Bursu, Foundation, 2007 - 2007

## **Non Academic Experience**

Johannes Kepler Üniversitesi