

## Doç.Dr. Gülşah GÜMRÜKÇÜ KÖSE

### Kişisel Bilgiler

**Fax Telefonu:** [+90 212 383 4134](tel:+902123834134)

**E-posta:** [ggumruk@yildiz.edu.tr](mailto:ggumruk@yildiz.edu.tr)

**Web:** <https://avesis.yildiz.edu.tr/ggumruk>

**Posta Adresi:** Yıldız Teknik Üniversitesi, Davutpaşa Kampüsü Fen-Edebiyat Fakültesi, Kimya Bölümü, Anorganik Kimya 34220 Esenler / İstanbul

### Uluslararası Araştırmacı ID'leri

ORCID: 0000-0002-7057-9471

Yoksis Araştırmacı ID: 189544

### Eğitim Bilgileri

Doktora, Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya/ Anorganik Kimya, Türkiye 2004 - 2010

Yüksek Lisans, Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya/ Anorganik Kimya, Türkiye 2001 - 2003

Lisans, Trakya Üniversitesi, Fen Edebiyat Fakültesi, Kimya Bölümü, Türkiye 1994 - 1998

### Yaptığı Tezler

Doktora, Yeni Mono ve Bis Ftalosiyanın Sentezi ve Özelliklerinin İncelenmesi, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya/ Anorganik Kimya, 2010

Yüksek Lisans, Kırmızı Soğan Kabuğundan Ekstrakte Edilen Antosiyanın ile Yünlü Kumaşların Boyanması, Yıldız Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Bölümü/ Anorganik Kimya, 2003

### Araştırma Alanları

Kimya, İnorganik Kimya, Geçiş Elementleri, İnorganik Halkalı Bileşikler, Koordinasyon Kimyası, Organometalik Kimya , Yeni Ligandlar, Temel Bilimler

### Akademik Unvanlar / Görevler

Doç.Dr., Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2014 - Devam Ediyor

Araştırma Görevlisi Dr., Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2010 - 2011

Araştırma Görevlisi, Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2002 - 2010

### Verdiği Dersler

Genel Kimya, Lisans, 2020 - 2021, 2019 - 2020, 2014 - 2015

Deterjanlar, Lisans, 2019 - 2020, 2015 - 2016

Genel Kimya 2, Lisans, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2014 - 2015

Kozmetik Kimyası ve Üretimi, Lisans, 2020 - 2021

Genel Kimya 1, Lisans, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2014 - 2015

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İleri Anorganik Kimya, Yüksek Lisans, 2019 - 2020  
Anorganik Kimya 2, Lisans, 2018 - 2019  
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Ftalosiyanınlar ve Uygulamaları, Yüksek Lisans, 2018 - 2019, 2016 - 2017  
Organometalik Bileşikler Kimyası, Yüksek Lisans, 2016 - 2017  
Anorganik Kimya 2, Lisans, 2016 - 2017, 2015 - 2016  
Kozmetik Kimyası Ve Üretimi , Lisans, 2017 - 2018, 2016 - 2017  
Anorganik Kimya 1 , Lisans, 2016 - 2017  
Anorganik Kimya Laboratuvarı 1, Lisans, 2015 - 2016  
Makrosiklik Bileşikler Kimyası, Yüksek Lisans, 2014 - 2015

## Yönetilen Tezler

Gümrükçü Köse G., Avcıata O., FOTOKATALİZÖR ÖZELLİK GÖSTEREN YENİ FTALOSİYANİN- TİTANYUMDİOKSİT NANOKOMPOZİTLER, Doktora, S.Neccaroğlu(Öğrenci), 2019

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A novel diaxially silicon phthalocyanine sensitizer for the generation of high efficiency singlet oxygen in photochemical and sono-photochemical studies**  
GÜMRÜKÇÜ KÖSE G.  
Journal of Organometallic Chemistry, cilt.998, 2023 (SCI-Expanded)
- II. **Influence of 2-naphthoic acid anchoring groups to the photovoltaic performance of zinc phthalocyanine-based photosensitizers in dye-sensitized solar cell**  
Köse G. G., Karaoğlan G. K., Maden Y. E., KOCA A.  
Journal of Electroanalytical Chemistry, cilt.945, 2023 (SCI-Expanded)
- III. **Effects of anchoring and spacer groups of asymmetric zinc phthalocyanines on the photovoltaic performance of dye-sensitized solar cells**  
Köse G. G., Karaoğlan G. K., Maden Y. E., KOCA A.  
New Journal of Chemistry, cilt.47, sa.28, ss.13497-13507, 2023 (SCI-Expanded)
- IV. **DNA groove binder and significant cytotoxic activity on human colon cancer cells: Potential of a dimeric zinc (II) phthalocyanine derivative**  
Batıbay G. S., KESER KARAOĞLAN G., GÜMRÜKÇÜ KÖSE G., ÖZÇELİK KAZANCIOĞLU E., Metin E., DANIŞMAN KALINDEMİRTAŞ F., Erdem Kuruca S., ARSU N.  
Biophysical Chemistry, cilt.295, 2023 (SCI-Expanded)
- V. **New phthalocyanine-TiO<sub>2</sub> nanocomposites with photocatalyst properties**  
Işık S. N., Köse G. G., AVCIATA O.  
Research on Chemical Intermediates, cilt.49, sa.4, ss.1629-1648, 2023 (SCI-Expanded)
- VI. **Electrochemical and spectroelectrochemical characterizations of phthalocyanines bearing peripherally tetra-4-carboxyethylenephenoxy anchoring groups and usage as photosensitizers of dye-sensitized solar cell**  
Maden Y. E., Köse G. G., Karaoğlan G. K., KOCA A.  
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- VII. **Dual effect of light and ultrasound for efficient singlet oxygen generation with novel diaxial silicon phthalocyanine sensitizer**  
Köse G. G., ERDOĞMUŞ A.  
Photochemistry and Photobiology, 2023 (SCI-Expanded)
- VIII. **Synthesis of a novel axially substituted silicon phthalocyanine sensitizer for efficient singlet oxygen**

**generation by comparing PDT and SPDT studies**

GÜMRÜKÇÜ KÖSE G., KESER KARAOĞLAN G.

CHEMICAL PHYSICS, cilt.565, 2023 (SCI-Expanded)

- IX. **Novel silicon phthalocyanine photosensitizers containing carboxylic acid based axial anchoring groups: Electrochemistry, spectroelectrochemistry, and dye sensitized solar cell performance**  
GÜMRÜKÇÜ KÖSE G., KESER KARAOĞLAN G., ERDAĞ MADEN Y., KOCA A.  
DYES AND PIGMENTS, cilt.207, 2022 (SCI-Expanded)
- X. **Synthesis of new zinc phthalocyanines including schiff base and halogen; photophysical, photochemical, and fluorescence quenching studies**  
Yuzeroglu M., Karaoglan G. K., Kose G. G., ERDOĞMUŞ A.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1238, 2021 (SCI-Expanded)
- XI. **The Synthesis, Characterization, Electrochemical and Spectroelectrochemical Properties of Novel Unsymmetrical Phthalocyanines Containing Naphthoic Acid and Di-tert-butylphenoxy Groups**  
Gümrükçü Köse G., Keser Karaoğlan G., Isik S. N., Akyuz D., Koca A.  
SYNTHETIC METALS, cilt.264, 2020 (SCI-Expanded)
- XII. **Synthesis, characterization and ethanol sensing properties of carboxylic acid-terminated naphthoxy substituted phthalocyanines**  
ISIK S. N., KARAOGLAN G., OMUR B., ALTINDAL A., KOSE G.  
SYNTHETIC METALS, cilt.246, ss.7-15, 2018 (SCI-Expanded)
- XIII. **Novel carboxylic acid terminated silicon(IV) and zinc(II) phthalocyanine photosensitizers: Synthesis, photophysical and photochemical studies**  
Hısır A., Kose G., Atmaca G., Erdoğan A., Karaoğlan G.  
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- XIV. **Novel homoleptic, dimeric zinc(II) phthalocyanines as gate dielectric for OFET device**  
Karaoğlan G., Gümrükçü G., GÖRDÜK S., CAN N., Gül A.  
Synthetic Metals, cilt.230, ss.7-11, 2017 (SCI-Expanded)
- XV. **Synthesis, characterization, fluorescence spectra and energy transfer properties of a novel unsymmetrical zinc phthalocyanine with peripherally coordinated Ru(II) complex**  
Ceylan N., Gumrukcu G., Karaoglan G., Gül A.  
SYNTHETIC METALS, cilt.206, ss.55-60, 2015 (SCI-Expanded)
- XVI. **Photophysical and photochemical properties of a zinc phthalocyanine with four diphenylborinic ester moieties**  
Özçelik Ş., Karaoglan G., Gumrukcu G., Erdoğan A., Gül A.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, cilt.769, ss.17-23, 2014 (SCI-Expanded)
- XVII. **Photophysical, Photochemical, and BQ Quenching Properties of Zinc Phthalocyanines with Fused or Interrupted Extended Conjugation**  
Gumrukcu G., Karaoglan G., ERDOĞMUŞ A., Gül A., Avciata U.  
JOURNAL OF CHEMISTRY, 2014 (SCI-Expanded)
- XVIII. **Woolen Fabric Dyeing with Punica granatum L. Rind by Using Different Mordants**  
Ozgur M., Acikgoz Z. O., Sahinbaskan B. Y., Gumrukcu G.  
ASIAN JOURNAL OF CHEMISTRY, cilt.25, sa.4, ss.1956-1964, 2013 (SCI-Expanded)
- XIX. **Structural and Surface Characterization of Newly Synthesized D-pi-D Type Schiff Base Ligand: (1E,2E)-3-[4-(Dimethylamino)phenyl]prop-2-en-1-ylidene)phenylamine**  
Gumrukcu G., Garikyan S., Karaoglan G., Sakar D.  
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- XX. **A novel phthalocyanine conjugated with four salicylideneimino complexes: Photophysics and fluorescence quenching studies**  
Gumrukcu G., Karaoglan G., ERDOĞMUŞ A., Gül A., Avciata U.  
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- XXI. **A novel soluble phthalocyanine capable of binding four boronic esters**  
Özçelik Ş., Karaoglan G., Gumrukcu G., Gül A.

- TURKISH JOURNAL OF CHEMISTRY, cilt.36, sa.6, ss.899-906, 2012 (SCI-Expanded)
- XXII. **Synthesis and characterization of novel soluble phthalocyanines with fused conjugated unsaturated groups**  
Karaoglan G., Gumrukcu G., KOCA A., Gül A., Avciata U.  
DYES AND PIGMENTS, cilt.90, sa.1, ss.11-20, 2011 (SCI-Expanded)
- XXIII. **Effect of Tannic Acid and Metal Salts on Dyeing of Woolen Fabrics with Red Onion (*Alliumcepa L.*)**  
Gumrukcu G., Ozgur M.  
ASIAN JOURNAL OF CHEMISTRY, cilt.23, ss.1459-1466, 2011 (SCI-Expanded)
- XXIV. **The synthesis, characterization, electrochemical and spectroelectrochemical properties of a novel, cationic, water-soluble Zn phthalocyanine with extended conjugation**  
Karaoglan G., Gumrukcu G., KOCA A., Gül A.  
DYES AND PIGMENTS, cilt.88, sa.3, ss.247-256, 2011 (SCI-Expanded)
- XXV. **Synthesis and electrochemical, electrical and gas sensing properties of novel mononuclear metal-free, Zn(II), Ni(II), Co(II), Cu(II), Lu(III) and double-decker Lu(III) phthalocyanines substituted with 2-(2H-1,2,3-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl) phenoxy**  
Gumrukcu G., Ozgur M., Altindal A., Özkaya A. R., Salih B., Bekaroglu O.  
SYNTHETIC METALS, cilt.161, ss.112-123, 2011 (SCI-Expanded)
- XXVI. **Extraction of anthocyanin pigments from red onion (*Alliumcepa L.*) and dyeing woolen fabrics**  
Guemruekcue G., Oezguer M. U., Gueltekin C.  
ASIAN JOURNAL OF CHEMISTRY, cilt.20, sa.4, ss.2891-2902, 2008 (SCI-Expanded)
- XXVII. **DETERMINATION OF ANTHOCYANINS IN SOME VEGETABLES AND FRUITS BY DERIVATIVE SPECTROPHOTOMETRIC METHOD**  
Sakar D., Karaoglan G., Gumrukcu G., Ozgur M.  
REVIEWS IN ANALYTICAL CHEMISTRY, cilt.27, sa.4, ss.235-249, 2008 (SCI-Expanded)
- XXVIII. **Abilities of partial least-squares (PLS-2) multivariate calibration in the analysis of quaternary mixture of food Colors (E-110, E-122, E-124, E-131)**  
Keser Karaoglan G., Guemruekcue G., Oezguer M. U., Bozdogan A. E., Asci B.  
ANALYTICAL LETTERS, cilt.40, sa.10, ss.1893-1903, 2007 (SCI-Expanded)

## Kitap & Kitap Bölümleri

- I. **DYEING PROPERTIES OF WOOLLEN FABRIC WITH QUERCETIN EXTRACTED FROM PUNICA GRANATUM L. RIND USING DIFFERENT DYEING METHOD AND MORDANT MIXTURES**  
Yılmaz Şahinbaşkan B., Ögütgen Açıkgöz Z., Gümrükçü Köse G., Özgür M.  
ITC&DC: 5TH INTERNATIONAL TEXTILE, CLOTHING & DESIGN CONFERENCE 2010, BOOK OF PROCEEDINGS: MAGIC WORLD OF TEXTILES, Sajatovic A.H., Vujasinovic E., Editör, UNIV ZAGREB, FAC TEXTILE TECH, PO BOX 818, PRILAZ BARUNA FILIPOVICA 28A, ZAGREB, HR-10 000, CROATIA, Zagreb, ss.433-438, 2010
- II. **Adsorption of Cu (II) from Aqueous Solutions by Sumac (*Rhus coriaria L.*) Tannins**  
Uğur A. L., Gümrükçü Köse G., Özgür M.  
INNOVATIONS IN CHEMICAL BIOLOGY, Sener B, Editör, SPRINGER DORDRECHT, NETHERLANDS, Dordrecht, ss.269-276, 2009

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **The Synthesis and Characterization of Novel Carboxylic Group Substituted Metallophthalocyanines**  
GÜMRÜKÇÜ KÖSE G., Neccaroğlu Işık S., KESER KARAOĞLAN G.  
20th JCF-Frühjahrssymposium Congress, Konstanz, Almanya, 21 Mart 2018, ss.158
- II. **Synthesis and Characterization of Metallophthalocyanines Containing Carboxylic Group**  
KESER KARAOĞLAN G., Hışır A., GÜMRÜKÇÜ KÖSE G.

20. Fröhjahrssymposium JungChemikerForum, Konstanz, Almanya, 21 Mart 2018, ss.181

**III. Synthesis and characterization of a new dimeric zinc phthalocyanine**

GÜMRÜKÇÜ KÖSE G., KESER KARAOĞLAN G., GÖRDÜK S., GÜL A.

19. JCF-Fröhjahrssymposium, Mainz, Almanya, 29 Mart - 01 Nisan 2017, ss.110

**IV. Synthesis of A Novel Phthalocyanine With Peripherally Coordinated Ru(II) Complex**

Gümrükçü Köse G., Keser Karaođlan G., Kemikli N., Gül A.

All in One Conferences, Dubai, Birleşik Arap Emirlikleri, 24 - 28 Mart 2015, ss.78

**V. Simultaneous Determination of Food Dyes Using Derivative Spectrophotometry**

GÜMRÜKÇÜ KÖSE G., EKEN KORKUT S., ÖZGÜR M.

3rd Black Sea basin Conference on Analytical Chemistry, Constanta, Romanya, 12 Eylül 2005, ss.143

## Desteklenen Projeler

GÜMRÜKÇÜ KÖSE G., Neccarođlu Işık S., Yükseköđretim Kurumları Destekli Proje, FOTOKATALİZÖR ÖZELLİK GÖSTEREN YENİ FTALOSİYANİN TİTANYUM DİOKSİT NANOKOMPOZİTLER, 2017 - 2019

Gümrükçü Köse G., Keser Karaođlan G., Erdođmuş A., Avciata U., Yükseköđretim Kurumları Destekli Proje, PERİFERAL BİSBİPİRİDİL RUTENYUM KOMPLEKSİ İÇEREN FTALOSİYANİNLER, 2015 - 2017

GÜMRÜKÇÜ KÖSE G., ERDOĐMUŞ A., AVCIATA U., KESER KARAOĐLAN G., Yükseköđretim Kurumları Destekli Proje, Dimerik Ftalosiyanın Sentez ve Karakterizasyonu, 2015 - 2017

Gümrükçü Köse G., Bekarođlu Ö., Özgür M., Yükseköđretim Kurumları Destekli Proje, Yeni Bis Ftalosiyanın ve Lutesyum Komplekslerinin Sentezi ve Özelliklerinin İncelenmesi, 2007 - 2011

## Metrikler

Yayın: 51

Atıf (WoS): 320

Atıf (Scopus): 342

H-İndeks (WoS): 9

H-İndeks (Scopus): 10