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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

Kozmetik Kimyası ve Üretimi, Lisans, 2019 - 2020
İleri Anorganik Kimya, Yüksek Lisans, 2019 - 2020
Anorganik Kimya 2, Lisans, 2018 - 2019
Anorganik Kimya 1, Lisans, 2018 - 2019
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. **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, cilt.100, sa.1, ss.52-66, 2024 (SCI-Expanded)
- II. **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)
- III. **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.
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- IV. **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)
- V. **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 KALINDEMİR TAŞ F., Erdem Kuruca S., ARSU N.
Biophysical Chemistry, cilt.295, 2023 (SCI-Expanded)
- VI. **New phthalocyanine-TiO₂ 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)
- VII. **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.
Journal of Electroanalytical Chemistry, cilt.929, 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., Erdoğmuş A., Karaoglan G.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, cilt.22, ss.1010-1021, 2018 (SCI-Expanded)
- 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., Erdoğmuş 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.
JOURNAL OF CHEMISTRY, 2013 (SCI-Expanded)
- XX. **A novel phthalocyanine conjugated with four salicylideneimino complexes: Photophysics and fluorescence quenching studies**
Gumrukcu G., Karaoglan G., ERDOĞMUŞ A., Gül A., Avciata U.
DYES AND PIGMENTS, cilt.95, sa.2, ss.280-289, 2012 (SCI-Expanded)
- 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.
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- 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.
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- 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: 52

Atıf (WoS): 321

Atıf (Scopus): 374

H-İndeks (WoS): 9

H-İndeks (Scopus): 11

Ödüller

Keser Karaođlan G., Koca A., Gül A., Gümrükçü Köse G., Dyes and Pigments Top Cited Papers for 2011 and 2012, Elsevier, Kasım 2014