

Lect. PhD Öznur DÜLGER KUTLU

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International Researcher IDs

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Education Information

Doctorate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, Turkey 2012 - 2021

Postgraduate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, Turkey 2010 - 2012

Undergraduate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, Turkey 2005 - 2009

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, PİRİDİN VE KİNOLİN GRUPLARI İÇEREN SUDA ÇÖZÜNÜR YENİ FTALOSİYANİNLERİN SENTEZİ, FOTOFİZİKSEL VE FOTOKİMYASAL ÖZELLİKLERİNİN İNCELENMESİ, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2021

Postgraduate, Renkli materyallerde Askorbik asit(Vitamin C)'in spektrofotometrik yöntem ile tayini, Yildiz Technical University, Faculty of Arts & Science, Department of Chemistry, 2012

Research Areas

Chemistry, Analytical Chemistry, Spectroscopical Methods, Inorganic Chemistry, Photochemistry of Inorganic Molecules, Coordination Chemistry, Natural Sciences

Academic Titles / Tasks

Lecturer PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2021 - Continues

Lecturer, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2013 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

1. Synthesis of non-peripheral phthalocyanine sensitizers and investigation of the effect of ultrasound-

light stimulus synergy on singlet oxygen production

Dülger Kutlu Ö., Aytan Kılıçarslan F., Erdoğan A.

Polyhedron, vol.262, 2024 (SCI-Expanded)

- II. **Photocatalytic properties of ZnO nanoparticle coating on porous ceramic substrates with varying porosities produced from fly ash and red mud**
Özcan M., Birol B., Dülger Kutlu Ö., Kaya F.
International Journal of Applied Ceramic Technology, vol.21, no.3, pp.1995-2009, 2024 (SCI-Expanded)
- III. **Synthesis, Characterization and DFT Study of Ti(IV) Phthalocyanines with Quinoline Groups**
AYDOĞDU Ş., Kutlu O. D., ERDOĞMUŞ A., HATİPOĞLU A.
Acta Chimica Slovenica, vol.71, no.3, pp.437-450, 2024 (SCI-Expanded)
- IV. **Peripherally tetra-Schiff base substituted metal-free and zinc (II) phthalocyanine, its water-soluble derivative: Synthesis, characterization, photo-physicochemical, aggregation properties and DNA/BSA binding activity**
Kutlu Ö., ERDOĞMUŞ A., Şen P., Yıldız S. Z.
Journal of Molecular Structure, vol.1284, 2023 (SCI-Expanded)
- V. **Schiff base containing pyridine groups functionalized water-soluble phthalocyanine: Synthesis, photo-physicochemical properties, and bovine serum albumin binding behavior**
KUTLU Ö., ERDOĞMUŞ A.
Turkish Journal of Chemistry, vol.46, no.5, pp.1504-1515, 2022 (SCI-Expanded)
- VI. **Unsymmetrical Zinc Phthalocyanines Containing Thiophene and Amine Groups As Donor for Bulk Heterojunction Solar Cells**
KESER KARAOĞLAN G., Kutlu Ö., ALTINDAL A.
Turkish Journal of Chemistry, vol.45, no.3, pp.694-703, 2021 (SCI-Expanded)
- VII. **Synthesis and photophysical properties of monomeric and dimeric halogenated aza-BODIPYs**
Çınar H. Ş., Özçelik Ş., Kaya K., Kutlu Ö., Erdoğan A., Gül A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1200, 2020 (SCI-Expanded)
- VIII. **New peripherally substituted lutetium mono and bis phthalocyanines; Synthesis and comparative photophysical and photochemical properties**
Kocaağa N., Kutlu Ö., Erdoğan A.
Journal of Porphyrins and Phthalocyanines, vol.23, pp.1542-1550, 2019 (SCI-Expanded)
- IX. **New water-soluble cationic indium (III) phthalocyanine bearing thioquinoline moiety; Synthesis, photophysical and photochemical studies with high singlet oxygen yield**
Kutlu O. D., Avcil D., Erdoğan A.
MAIN GROUP CHEMISTRY, vol.18, no.2, pp.139-151, 2019 (SCI-Expanded)
- X. **SIMULTANEOUS SPECTROPHOTOMETRIC DETERMINATION OF PHENOLIC ANTIOXIDANT (BHA AND BHT) CONCENTRATIONS IN PHARMACEUTICAL PREPARATIONS AND CHEWING GUMS USING THE H-POINT STANDARD ADDITION METHOD**
Özgür M., Kalaycıoğlu Z., Dülger Ö.
MACEDONIAN JOURNAL OF CHEMISTRY AND CHEMICAL ENGINEERING, vol.36, no.2, pp.211-222, 2017 (SCI-Expanded)
- XI. **Four Derivative Spectrophotometric Methods for the Simultaneous Determination of Carmoisine and Ponceau 4R in Drinks and Comparison with High Performance Liquid Chromatography.**
Turak F., Dinç M., Dülger O., Özgür M.
International journal of analytical chemistry, vol.2014, pp.650465, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **Fluoro functionality zinc phthalocyanine: photophysicochemical properties for photodynamic effects**
DÜLGER KUTLU Ö., AYTAN KILIÇARSLAN F., ERDOĞMUŞ A.
Sigma Journal of Engineering and Natural Sciences, vol.42, no.6, pp.1729-1735, 2024 (ESCI)

- II. **Improved Singlet Oxygen Production of Zinc Phthalocyanine Bearing Pyridine-4-Thiol Groups Using Sonochemistry and Comparison with Photochemistry**
KUTLU Ö. D.
Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.28, no.5, pp.1022-1030, 2024 (Peer-Reviewed Journal)
- III. **Sumac Leaves as a Novel Low Cost Adsorbent for Removal of Basic Dye Methylene Blue from Aqueous Solution**
Dülger Ö., Turak F., Turhan K., Özgür M.
ISRN Analytical Chemistry, no.2013, pp.1-9, 2013 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Fotodinamik Terapi için Tetra Süstitüe Ti(IV) Ftalosiyanın Bileşiğinin Fotofiziksel ve Fotokimyasal Özelliklerinin İncelenmesi**
Dülger Kutlu Ö.
34. ULUSAL KİMYA KONGRESİ , Yalova, Turkey, 1 - 06 September 2022, pp.115
- II. **SYNTHESIS, CHARACTERIZATION AND PHOTOPHYSIOCHEMICAL INVESTIGATION OF MAGNESIUM PHTHALOCYANINE WITH QUINOLINE FUNCTIONAL GROUPS**
Dülger Kutlu Ö.
8th INTERNATIONAL BLACK SEA COASTLINE COUNTRIES SCIENTIFIC RESEARCH CONFERENCE, Sofija, Bulgaria, 29 - 30 August 2022, pp.124
- III. **Synthesis and Photophysicochemical Properties of Novel Water Soluble Zinc Phthalocyanine for PDT**
Dülger Kutlu Ö., Erdoğan A.
1. International Balkan Chemistry Congress, Edirne, Turkey, 17 September 2018, pp.1
- IV. **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
- V. **Synthesis And Photophysicochemical Properties Of Bromo-Substituted Lutetium Phthalocyanine For Photodynamic Effects**
Dülger Kutlu Ö., Erdoğan A.
The 3rd GTU Photodynamic Day, İstanbul, Turkey, 09 May 2018, pp.1
- VI. **Synthesis And Photophysicochemical Properties Of Lutetium (III) Mono-phthalocyanine For Photodynamic Effects**
Kara D., Dülger Kutlu Ö., Erdoğan A.
The 3rd GTU Photodynamic Day, İstanbul, Turkey, 09 May 2018, pp.1
- VII. **Synthesis And Photophysicochemical Properties Of Lutetium (III) Bis-phthalocyanine For Photodynamic Effects**
Dülger Kutlu Ö., Kocaağa N., Erdoğan A.
The 3rd GTU Photodynamic Day, İstanbul, Turkey, 09 May 2018, pp.1
- VIII. **Synthesis And Photophysicochemical Properties Of Lutetium (III) Bis-phthalocyanine For Photodynamic Effects**
Dülger Kutlu Ö., Kocaağa N., Erdoğan A.
The 3rd GTU Photodynamic Day, İstanbul, Turkey, 09 May 2018, pp.1
- IX. **Synthesis And Photophysicochemical Properties Of Lutetium (III) Bis-phthalocyanine For Photodynamic Effects**
Dülger Kutlu Ö., Kocaağa N., Erdoğan A.
The 3rd GTU Photodynamic Day, İstanbul, Turkey, 09 May 2018, pp.1
- X. **Synthesis And Photophysicochemical Properties Of Lutetium (III) Bis-phthalocyanine For Photodynamic Effects**
Dülger Kutlu Ö., Kocaağa N., Erdoğan A.

The 3rd GTU Photodynamic Day, İstanbul, Turkey, 09 May 2018, pp.1

- XI. **Determination of Vitamin C Content in Coloured Fruits, Vegetables, Pharmaceuticals and Fruit Juices by UV-Spectrophotometric Method**
DÜLGER KUTLU Ö., ÖZGÜR M., TURAK F.
- XII. **Resolution of Ternary Mixtures of Sunset Yellow, Ponceau 4r and Quinoline Yellow by the Derivative Double Divisor-Ratio Spectra and Derivative Ratio Spectra-Zero Crossing Methods in Pharmaceutical Tablets**
Tarhan M., DÜLGER KUTLU Ö., Üstün Özgür M.
- XIII. **Türev Spektrofotometrik Yöntem İle Renkli Meyve, Sebze Ve İçeceklerde Askorbik Asit (Vitamin C) Tayini**
Turak F., DÜLGER KUTLU Ö., Üstün Özgür M.
- XIV. **Spectrophotometric Analysis of Cochineal Red A and Azorubine in Synthetic Mixtures and Drinks**
Turak F., DÜLGER KUTLU Ö., Atbakar A., Üstün Özgür M.
- XV. **Application of Derivative Spectrophotometric Method for the Analysis of a Ternary Mixture Containing Erythrosine, Quinoline Yellow and Indigotine in Tablets**
DÜLGER KUTLU Ö., Tarhan M., Üstün Özgür M.
- XVI. **Simultaneous Spectrophotometric Determination of Three Food Colorants in Tablets by Using Derivative-Differential Spectrophotometry**
DÜLGER KUTLU Ö., Tarhan M., Üstün Özgür M.
- XVII. **Modified Colorimetric Spectrophotometric Method for Ascorbic Acid Determination in Vegetables, Fruit, Pharmaceuticals and Fruit Juice**
DÜLGER KUTLU Ö., Özgür M., Turak F.
- XVIII. **Simultaneous Determination of Synthetic Dyes in Tablets with the Use of Double Divisor-Ratio Spectra Derivative and Ratio Spectra-Zero Crossing Methods**
Tarhan M., DÜLGER KUTLU Ö., Üstün Özgür M.
- XIX. **Application of Derivative-Differential Spectrophotometry for Determination of Synthetic Colorants in Tablets**
Üstün Özgür M., Tarhan M., DÜLGER KUTLU Ö.
- XX. **Ecological Dyeing with Some Red Rose Petals on Woolen Fabric by Using Different Mordants**
Çimen E., Demirelli M., Altıkatoğlu M., DÜLGER KUTLU Ö., Özgür M.
- XXI. **Validated Derivative Spectrophotometric Determination of Food Colorants in Pharmaceutical Products**
DÜLGER KUTLU Ö.
- XXII. **Ultrasonically Assisted Extraction of Anthocyanins from Red Rose Petals and a New Spectrophotometric Method for Quantitative Determination of Total Anthocyanins**
Çimen E., DÜLGER KUTLU Ö., Turak F., Özgür M.
- XXIII. **Simultaneous Spectrophotometric Determination of Phenolic Antioxidant (BHA and BHT) in Capsules and Chewing Gums by Using H-Point Standard Addition Method**
Kalaycıoğlu Z., DÜLGER KUTLU Ö., Üstün Özgür M.
- XXIV. **Spectrophotometric Analysis of Brilliant Blue and Indigotine in Synthetic Mixtures and Chewing Gum Samples**
Turak F., DÜLGER KUTLU Ö., Üstün Özgür M.
- XXV. **Quantification of Synthetic Phenolic Antioxidants in Capsules and Chewing Gums by Derivative-Differential UV Spectrophotometry**
Kalaycıoğlu Z., DÜLGER KUTLU Ö., Üstün Özgür M.

Supported Projects

Elçiçek H., Çelik B. C., Dülger Kutlu Ö., Demirelli M., Project Supported by Higher Education Institutions, Yüksek Verimli Hidrojen Üretimi için Yeni Nesil CoB Alaşımılı gC3N4 Katalizörlerinin Geliştirilmesi, 2024 - 2026

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