

Asst. Prof. NURAY ALTINÖLÇEK GÜLTEKİN

Personal Information

Office Phone: [+90 224 296 0233](tel:+902242960233)

Fax Phone: [+90 224 296 0233](tel:+902242960233)

Email: altinolcek@uludag.edu.tr

Web: <https://avesis.uludag.edu.tr/altinolcek>

Address: altinolcek@uludag.edu.tr

International Researcher IDs

ORCID: 0000-0002-9553-1474

Yoksis Researcher ID: 357915

Education Information

Doctorate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, Turkey 2015 - 2020

Postgraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, Turkey 2012 - 2014

Undergraduate, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, Turkey 2009 - 2012

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Formil grubu içeren farklı ligandlara sahip fosforesans heteroleptik iridyum (III) komplekslerinin sentezi, karakterizasyonu ve opto-elektronik cihazlarda kullanımının araştırılması, Bursa Uludağ University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya, 2020

Postgraduate, Disiyanovinil grubu içeren 2-fenilpiridin tabanlı ligandların sentezi ve optoelektronik teknolojilerinde kullanılacak fosforesans heteroleptik iridyum(III) komplekslerine dönüştürülmesi, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2014

Research Areas

Optics and Photonics, Organic Chemistry, Organic Reaction Mechanisms, Organic Spectroscopy, Organometallics

Academic Titles / Tasks

Assistant Professor, Bursa Uludağ University, YENİŞEHİR İBRAHİM ORHAN MYO, GIDA İŞLEME, 2021 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

1. A reaction-based carbazole-dicyanovinyl conjugated colorimetric and ratiometric fluorescent probe

for selective detection of cyanide ions

Battal A., Kassa S. B., ALTINÖLÇEK GÜLTEKİN N., TAVASLI M., ONGANER Y.

SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.304, 2024 (SCI-Expanded)

- II. **Synthesis of Di- and Tricationic Surfactants and Comparison of Their Activity on Oxidation of Metal in HCl Media**
ÖZTÜRK S., GÜLTEKİN Z., Gültekin N., Akgül G., ALPER M.
Protection of Metals and Physical Chemistry of Surfaces, vol.59, no.5, pp.998-1009, 2023 (SCI-Expanded)
- III. **A Carbazole-based Fluorescent Turn-off Chemosensor for Iron (II/III) Detection in a Dimethyl Sulfoxide**
Battal A., Kassa S. B., Gultekin N., TAVASLI M., ONGANER Y.
JOURNAL OF FLUORESCENCE, vol.33, no.4, pp.1421-1429, 2023 (SCI-Expanded)
- IV. **Synthesis of tri-cationic surfactants containing two amide functional groups and inhibition effectiveness against metal corrosion in acidic medium**
Ozturk S., Altinolcek N.
JOURNAL OF SURFACTANTS AND DETERGENTS, vol.25, no.6, pp.821-832, 2022 (SCI-Expanded)
- V. **A red-orange carbazole-based iridium(III) complex: Synthesis, thermal, optical and electrochemical properties and OLED application**
Altinolcek N., Battal A., TAVASLI M., Cameron J., Peveler W. J., Yu H. A., Skabara P. J., Fairbairn N. J., Hedley G. J.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.951, 2021 (SCI-Expanded)
- VI. **Carbazole-based D-pi-A molecules: Determining the photophysical properties and comparing ICT effects of pi-spacer and acceptor groups**
Altinolcek N., Battal A., Vardalli C. N., TAVASLI M., Yu H. A., Peveler W. J., Skabara P. J.
JOURNAL OF MOLECULAR STRUCTURE, vol.1239, 2021 (SCI-Expanded)
- VII. **Yellowish-orange and red emitting quinoline-based iridium(III) complexes: Synthesis, thermal, optical and electrochemical properties and OLED application**
Altinolcek N., Battal A., TAVASLI M., Cameron J., Peveler W. J., Yu H. A., Skabara P. J.
SYNTHETIC METALS, vol.268, 2020 (SCI-Expanded)
- VIII. **Synthesis of novel multifunctional carbazole-based molecules and their thermal, electrochemical and optical properties**
Altinolcek N., Battal A., TAVASLI M., Peveler W. J., Yu H. A., Skabara P. J.
BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY, vol.16, pp.1066-1074, 2020 (SCI-Expanded)
- IX. **Synthesis of biscyclometalated iridium(III) acetylacetonate complexes via a 15 min bridge-splitting reaction, their characterisations and photophysical properties**
Altinolcek N., Aydemir M., TAVASLI M., Dos Santos P. L., Monkman A. P.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.851, pp.184-188, 2017 (SCI-Expanded)
- X. **Synthesis, thermal and optical properties of a novel bis(2-(4-dicyanovinylphenyl) pyridinato-N, C2) iridium(acetylacetonate)**
Altinolcek N., TAVASLI M., Aydemir M., Abay B., Monkman A. P.
INORGANICA CHIMICA ACTA, vol.440, pp.102-106, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Investigation of Spintronic Properties of Transition Metal Doped ZnO Thin Films Produced by Sol-Gel Spin Coating**
Gültekin Z., Akay C., Altınölçek Gültekin N.
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.28, no.5, pp.1064-1075, 2024 (Peer-Reviewed Journal)
- II. **2-(karbazol-3'-il)-5-formilpiridin: Floresans Biyotiyol Sensör Özelliğinin İncelenmesi**
Battal A., Altınölçek N.
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, vol.8, no.2, pp.901-912, 2021 (Peer-Reviewed Journal)

III. The Investigation of Fluorescence Biothiol Sensor Properties of 2-(N-hexyl-carbazole-3'-yl)-4-formylpyridine

ALTINÖLÇEK N., BATTAL A.

İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.11, no.3, pp.2184-2194, 2021 (Peer-Reviewed Journal)

Books & Book Chapters

I. RECYCLING A SCRAPPED MAGNETIC STIRRER/HEATER USING AN ARDUINO MICROCONTROLLER

Gültekin Z., Altınölçek Gültekin N.

in: International Research in Science and Mathematics, Prof. Dr. Filiz ÖZBAŞ GERÇEKER Prof. Dr. Hasan AKGÜL Doç. Dr. Hayri BABA, Editor, Serüven Yayınevi, İzmir, pp.83-93, 2022

Refereed Congress / Symposium Publications in Proceedings

I. Bis(2-phenyl-4/5-formylpyridinato-N,C2')iridium(III)acetylacetonate (5a and 5b): their 15 Minute synthesis, characterisations and photophysical properties

ALTINÖLÇEK N., TAVASLI M., AYDEMİR M., Dos Santos P. L., Monkman A. P.

İstanbul International Organic Electronic Symposium, 2 - 04 December 2019

II. Synthesis, Thermal and Optical Properties of a Novel Bis(2-(4-dicyanovinylphenyl)pyridinato-N,C2)iridium(acetylacetonate)

ALTINÖLÇEK N., TAVASLI M., AYDEMİR M., ABAY B., MONKMAN A. P.

The International Conference on Materials Science Mechanical and Automotive Engineerings and Technology in CAPPADOCIA/TURKEY (IMSMATEC'19), 21 - 23 June 2019

III. Design, Synthesis and Characterization of Carbazole Based Biothiol Fluorescent Sensors

VARDALLI C., ALTINÖLÇEK N., TAVASLI M.

The International Conference on Materials Science Mechanical and Automotive Engineerings and Technology in CAPPADOCIA/TURKEY (IMSMATEC'19), 21 - 23 June 2019

IV. Aktif Öğrenmeye Uygun Sulu Kalsiyum Klorür Çözeltisi Deneyinin Tasarımı Ve Uygulanması

Altınölçek N., Tavaslı M.

IV Ulusal Kimya Eğitimi Kongresi (UKEK), Balıkesir, Turkey, 7 - 10 September 2015, pp.1

Supported Projects

Akay C., Gültekin Z., Altınölçek Gültekin N., Project Supported by Higher Education Institutions, Investigation of the Properties of Transition Metal Doped ZnO Thin Films, 2023 - 2024

Tavaslı M., ALTINÖLÇEK N., Project Supported by Higher Education Institutions, Bis(2-(N-heksilkarbazol-3-il)-4/5-formilpiridin)(asetilasetonat)iridyum(III) komplekslerinin sentezi, karakterizasyonu ve fotofiziksel özelliklerinin incelenmesi, 2018 - 2020

Altınölçek N., Tavaslı M., Project Supported by Higher Education Institutions, Asetilasetonatobis(2-fenil-4/5-disiyanovinilpiridinato-N,C2)iridyum(III) komplekslerinin sentezi ve fotofiziksel özelliklerinin incelenmesi, 2016 - 2017

Hacıismailoğlu M. C., Altınölçek N., Özer M., Ahmetoğlu M., Tavaslı M., Karamangil M. İ., Project Supported by Higher Education Institutions, ORGANİK IŞIK YAYAN DİYOT OLED VE ORGANİK GÜNEŞ PİLLERİ ÜRETİMİ VE KARAKTERİZASYONU, 2015 - 2017

Metrics

Publication: 18

Citation (WoS): 38

Citation (Scopus): 38

H-Index (WoS): 4

H-Index (Scopus): 4

Scholarships

Öncelikli Alanlara Yönelik Doktora Bursu (2211-C), TUBITAK, 2016 - 2019

Türkiye Kimya Sanayicileri Derneği Başarı Bursu, Special Institutions and Organizations, 2016 - 2018

Öncelikli Alanlara Yönelik Yüksek Lisans Bursu (2210-C), TUBITAK, 2013 - 2014

Awards

Altınölçek N., Kimya Bölüm İkincisi, Bursa Uludağ Üniversitesi, June 2012