

Assoc. Prof. İbrahim Özçeşmeci

Personal Information

Office Phone: [+90 0212 285 7308](tel:+9002122857308)

Email: ozcesmecii@itu.edu.tr

Web: <https://avesis.itu.edu.tr/ozcesmecii>

International Researcher IDs

ORCID: 0000-0002-4535-7279

Publons / Web Of Science ResearcherID: N-6619-2014

ScopusID: 6504072443

Yoksis Researcher ID: 205347

Education Information

Doctorate, Istanbul Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 2003 - 2010

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 1999 - 2003

Undergraduate, Istanbul Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1995 - 1999

Foreign Languages

English

Dissertations

Doctorate, Tetrakis(hidroksietiltia)ftalosiyenin'den yeni bileşiklerin sentezi ve karakterizasyonu, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2010

Postgraduate, Tetra (2-naftiloksi) sübstitüe ftalosiyeninler, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, 2003

Research Areas

Basic Sciences, Chemistry, Inorganic Chemistry, Inorganic Ring Compounds, Novel Ligands

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Fen-Edebiyat, Kimya, 2014 - Continues

Lecturer PhD, Istanbul Technical University, Fen-Edebiyat, Kimya, 2003 - 2018

Courses

Genel Kimya, Undergraduate, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of advanced biological properties of carbon, carbon-boron quantum dots, and copper (II) phthalocyanine nanoconjugates**
Özçesmeci M., Gümrükçü S., Ünlü C., Coşkun İ. Y., Özdemir S., Yalçın M. S., Tollu G., Özçesmeci İ.
Applied Organometallic Chemistry, 2024 (SCI-Expanded)
- II. **Synthesis, fabrication and characterization of 2-naphthyloxy group-substituted bis(2-pyridylimino)isoindoline and its derivatives as a positive electrode for vanadium redox flow battery applications**
Gümrükçü S., Özçesmeci M., Koçyiğit N., Kaya K., Gül A., ŞAHİN Y., Özçesmeci İ.
Dalton Transactions, vol.52, no.16, pp.5265-5276, 2023 (SCI-Expanded)
- III. **Energy transfer processes in 1,3-bis(pyridyl) iminoisoindoline based donor-acceptor system – Synthesis, photophysics, and TD-DFT study**
Gümrükçü S., Katirci R., Özçesmeci M., Ünlü C., Özçesmeci İ.
Inorganic Chemistry Communications, vol.146, 2022 (SCI-Expanded)
- IV. **Effect of heteroatom-doped carbon quantum dots on the red emission of metal-conjugated phthalocyanines through hybridization**
Eryigit S., Gelir A., Budak E., Ünlü C., Gömleksiz A., Özçesmeci İ., Gül A.
LUMINESCENCE, vol.37, no.2, pp.268-277, 2022 (SCI-Expanded)
- V. **The analysis of interactions between DNA and small molecules: proposals for binding mechanisms based on computational data**
Özçesmeci İ., Katirci R., Sesalan B. Ş.
MONATSHFTE FÜR CHEMIE, vol.153, no.1, pp.113-124, 2022 (SCI-Expanded)
- VI. **The effect of Zn metallophthalocyanine on the optical and structural properties of sol-gel spin coated TiO₂ thin films**
Özçesmeci İ., Sorar İ., Sarıgül H.
Journal Of Optoelectronics And Advanced Materials, vol.23, pp.587-593, 2021 (SCI-Expanded)
- VII. **Optical and morphological properties and in silico studies on metallophthalocyanines containing pyridyloxy moieties**
SORAR İ., Özçesmeci İ., Katirci R., Gül A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1212, 2020 (SCI-Expanded)
- VIII. **Unsymmetrical phthalocyanines containing azo moiety; Synthesis and photophysical properties**
Garip E. O., Özçesmeci M., KATIRCI R., Özçesmeci İ., Hamuryudan E.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.23, pp.1563-1569, 2019 (SCI-Expanded)
- IX. **Synthesis, photophysical and electrochemical properties of novel unsymmetrical phthalocyanines with a Sudan IV moiety**
Özçesmeci İ., Büyük P., Nar I., Gül A.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.22, pp.112-120, 2018 (SCI-Expanded)
- X. **Synthesis and some optical results of long chain substituted phthalocyanines**
Özçesmeci İ., SORAR İ.
TURKISH JOURNAL OF CHEMISTRY, vol.42, no.1, pp.21-28, 2018 (SCI-Expanded)
- XI. **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., Özçesmeci İ., Sesalan B. Ş., Altuntas Bayir Z.
TURKISH JOURNAL OF CHEMISTRY, vol.42, no.2, pp.572-585, 2018 (SCI-Expanded)
- XII. **Synthesis and photophysical properties of a porphyrin-BODIPY dyad and a porphyrin-o-carborane-BODIPY triad**
BERKSUN E., NAR I., Atsay A., Özçesmeci İ., Gelir A., Hamuryudan E.
INORGANIC CHEMISTRY FRONTIERS, vol.5, no.1, pp.200-207, 2018 (SCI-Expanded)
- XIII. **Novel phthalocyanines containing azo chromophores; synthesis, characterization, photophysical, and electrochemical properties**
Garip E. O., Özçesmeci M., Nar I., Özçesmeci İ., Hamuryudan E.

JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.22, pp.198-206, 2018 (SCI-Expanded)

- XIV. **Spectroscopic and thermodynamic approach to the interaction of nonperipherally substituted cationic phthalocyanines with calf thymus (CT)-DNA**
Tuncer S., Özçeşmeci İ., Sesalan B. Ş., Kalkan Burat A.
TURKISH JOURNAL OF CHEMISTRY, vol.42, no.2, pp.274-295, 2018 (SCI-Expanded)
- XV. **Synthesis, characterization, and optical studies of pentoxy-substituted tetrakis(pentafluorobenzyloxy)phthalocyanines**
Özçeşmeci M., Sorar I., Özçeşmeci İ., Hamuryudan E.
JOURNAL OF COORDINATION CHEMISTRY, vol.71, no.15, pp.2281-2292, 2018 (SCI-Expanded)
- XVI. **Photophysicochemical, calf thymus DNA binding and in vitro photocytotoxicity properties of tetramorpholinoethoxy-substituted phthalocyanines and their water-soluble quaternized derivatives**
KOCAN H., Kaya K., Özçeşmeci İ., Sesalan B. Ş., Goksel M., Durmus M., Burat A.
JOURNAL OF BIOLOGICAL INORGANIC CHEMISTRY, vol.22, no.8, pp.1251-1266, 2017 (SCI-Expanded)
- XVII. **Thin films of fluorinated groups substituted metallophthalocyanines as an optical material**
Özçeşmeci M., Özçeşmeci İ., Sorar I., Hamuryudan E.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.86, pp.209-212, 2017 (SCI-Expanded)
- XVIII. **Electrocatalytic hydrogen evolution reaction with a supramolecular cobalt(II)phthalocyanine carrying four cobaloxime moieties**
Özçeşmeci İ., Demir A., Akyuz D., Koca A., Gül A.
INORGANICA CHIMICA ACTA, vol.466, pp.591-598, 2017 (SCI-Expanded)
- XIX. **Synthesis, photophysical and electrochemical properties of novel hexadeca-substituted phthalocyanines bearing naphthoxy groups**
Kurt O., Özçeşmeci İ., Koca A., Gül A., Kocak M.
DYES AND PIGMENTS, vol.137, pp.236-243, 2017 (SCI-Expanded)
- XX. **Non-peripherally tetrasubstituted phthalocyanines: Synthesis, characterization and, photophysical investigation**
TUNCER S., Kaya K., Özçeşmeci İ., Burat A.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.827, pp.78-85, 2017 (SCI-Expanded)
- XXI. **Synthesis and spectroscopic investigation of boronic esters of metal-free fluorinated and non-fluorinated phthalocyanines**
Özçeşmeci İ., OZCESMECI M., Gül A., HAMURYUDAN E.
SYNTHETIC METALS, vol.222, pp.344-350, 2016 (SCI-Expanded)
- XXII. **Optical studies on phthalocyanines substituted with phenylazonaphthoxy groups**
Özçeşmeci İ., Sorar I., Gül A.
PHILOSOPHICAL MAGAZINE, vol.96, no.28, pp.2986-2999, 2016 (SCI-Expanded)
- XXIII. **The synthesis and investigation of binding properties of a new water soluble hexadeca zinc(II) phthalocyanine with bovine serum albumin and DNA**
Kurt O., OZCESMECI İ., Sesalan B. Ş., Koçak M.
NEW JOURNAL OF CHEMISTRY, vol.39, no.7, pp.5767-5775, 2015 (SCI-Expanded)
- XXIV. **Synthesis and photophysical properties of novel hexadeca-substituted phthalocyanines bearing three different groups**
Kurt O., OZCESMECI İ., GUL A., Kocak M.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.754, pp.8-15, 2014 (SCI-Expanded)
- XXV. **Synthesis and photophysical properties of indium(III) phthalocyanine derivatives**
Özçeşmeci İ., GELİR A., Gül A.
JOURNAL OF LUMINESCENCE, vol.147, pp.141-146, 2014 (SCI-Expanded)
- XXVI. **Synthesis and aggregation behavior of zinc phthalocyanines substituted with bulky naphthoxy and phenylazonaphthoxy groups: An experimental and theoretical study**
Özçeşmeci İ., TEKİN A., GUL A.
SYNTHETIC METALS, vol.189, pp.100-110, 2014 (SCI-Expanded)
- XXVII. **Synthesis and photophysical properties of novel unsymmetrical metal-free and**

metallophthalocyanines

Özçesmecı İ., BURAT A., Bayir Z.

JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.750, pp.125-131, 2014 (SCI-Expanded)

XXVIII. Photophysical properties of anthracenylmethyloxycarbonylmethylsulfanyl-phthalocyanines

Sevim A. M., ARIKAN S., OZCESMECI İ., GUL A.

SYNTHETIC METALS, vol.183, pp.1-7, 2013 (SCI-Expanded)

XXIX. Synthesis and fluorescence properties of phthalocyanines with dibromo- and tribromo-phenoxy functionalities

Ozcesmecı İ.

SYNTHETIC METALS, vol.176, pp.128-133, 2013 (SCI-Expanded)

XXX. Synthesis and photophysical properties of a novel ethynyl zinc(II) phthalocyanine and its functionalized derivative with click chemistry

Sevim A. M., OZCESMECI İ., GUL A.

JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.17, pp.540-547, 2013 (SCI-Expanded)

XXXI. Investigation of the biological properties of water soluble quinoline substituted phthalocyanines

Evren D., Özçesmecı İ., Sesalan B. Ş., BURAT A.

SYNTHETIC METALS, vol.168, pp.31-35, 2013 (SCI-Expanded)

XXXII. Synthesis of novel tetracationic phthalocyanines and investigation of their DNA-binding properties

Evren D., BURAT A., Özçesmecı İ., Sesalan B. Ş.

DYES AND PIGMENTS, vol.96, no.2, pp.475-482, 2013 (SCI-Expanded)

Articles Published in Other Journals

I. Optical investigation of palladium(II) phthalocyanine including an aromatic group

ÖZÇEŞMECİ İ., SORAR İ.

Journal of the Turkish Chemical Society, Section A: Chemistry, 2018 (Scopus)

Supported Projects

Özçesmecı İ., Project Supported by Higher Education Institutions, 1,3-bis (2-Piridil imino) izoindolin Türevlerinin Sentezi ve Karakterizasyonu, 2016 - 2018

Özçesmecı İ., Project Supported by Higher Education Institutions, Kobalt ftalosiyenin-kobaltoksim komplekslerinin fotokimyasal ve elektrokimyasal çalışması, 2016 - 2018

Özçesmecı İ., Project Supported by Higher Education Institutions, Metalli Ftalosiyeninlerin Sentezi ve Agregasyon Özellikleri; Deneysel ve Teorik Çalışma, 2014 - 2018

Özçesmecı İ., Project Supported by Higher Education Institutions, Solketal Grubu İçeren Metalsız Ftalosiyeninlerin ve Ftalonitrillerin Boronik Esterleri, 2013 - 2018

Özçesmecı İ., Project Supported by Higher Education Institutions, Hacimli Halojen Gruplar İçeren Çinko² Ftalosiyeninlerin Sentezi ve Spektroskopik İncelemeleri, 2012 - 2018

Özçesmecı İ., Project Supported by Higher Education Institutions, Synthesis and DNA Binding Properties of Cationic Metallophthalocyanines, 2011 - 2018

Scientific Refereeing

Turkish Journal of Chemistry, SCI Journal, May 2017

Turkish Journal of Chemistry, SCI Journal, August 2015

Journal of Molecular Structure, SCI Journal, October 2014

Turkish Journal of Chemistry, SCI Journal, July 2014

Turkish Journal of Chemistry, SCI Journal, April 2013

Turkish Journal of Chemistry, SCI Journal, May 2012

Metrics

Publication: 69

Citation (WoS): 795

Citation (Scopus): 858

H-Index (WoS): 19

H-Index (Scopus): 21

Non Academic Experience

İstanbul Teknik Üniversitesi

Tübingen Üniversitesi