

# Prof. BARIŞ TEMELLİ

## Personal Information

Office Phone: [+90 312 297 6185](tel:+903122976185)

Email: [temelli@hacettepe.edu.tr](mailto:temelli@hacettepe.edu.tr)

Web: <https://avesis.hacettepe.edu.tr/temelli>

Address: Hacettepe Üniversitesi Beytepe Kampüsü Kimya Bölümü Beytepe Ankara

## International Researcher IDs

ORCID: 0000-0003-4743-7093

ScopusID: 6507249677

Yoksis Researcher ID: 108908

## Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya/Organik Kimya, Turkey 2002 - 2008

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya/Organik Kimya, Turkey 2000 - 2002

Undergraduate, Hacettepe University, Fen Fakültesi, Kimya, Turkey 1996 - 2000

## Foreign Languages

English, C1 Advanced

## Research Areas

Chemistry, Organic Chemistry, Chemistry of Heterocyclic Compounds, Chemistry of Macromolecules, Natural Sciences

## Academic Titles / Tasks

Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2021 - Continues

Associate Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2014 - 2021

Assistant Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2011 - 2014

Research Assistant, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2000 - 2011

## Academic and Administrative Experience

Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2016 - Continues

## Advising Theses

TEMELLİ B., Formil grubu içeren porfirin bileşiklerinin sentezi ve tepkimeleri, Postgraduate, H.KALKAN(Student), 2017

TEMELLİ B., Etin köprülü ikili ve üçlü porfirin-korol hibrit bileşiklerinin sentezi ve karakterizasyonu, Postgraduate,

M.GÜNDÜZ(Student), 2017

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis of meso-pyrrole-substituted corroles by condensation of 1,9-diformyldipyrromethanes with pyrrole**  
TEMELLİ B., Kapci P.  
BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY, vol.18, pp.1403-1409, 2022 (SCI-Expanded)
- II. **Ethynyl-bridged porphyrin-corrole dyads and triads: Synthesis, properties and DFT calculations**  
Temelli B., GÜNDÜZ M., YÜKSEL D.  
TETRAHEDRON, vol.74, no.34, pp.4476-4488, 2018 (SCI-Expanded)
- III. **Unexpected formation of  $\beta$ , meso-directly linked diporphyrins under Adler–Longo reaction conditions**  
TEMELLİ B., Kalkan H.  
Synthetic Communications, vol.48, no.16, pp.2112-2117, 2018 (SCI-Expanded)
- IV. **Synthesis, Spectroscopic Properties, and DFT Calculations of Imine-Bridged meso-meso- and beta-meso-Linked Porphyrin-Corrole Dyads**  
TEMELLİ B., ÖZAŞIK O., YÜKSEL D.  
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, no.33, pp.4905-4915, 2017 (SCI-Expanded)
- V. **Synthesis and spectroscopic properties of  $\beta$ -meso directly linked porphyrin-corrole hybrid compounds**  
TEMELLİ B., KALKAN H.  
Beilstein Journal of Organic Chemistry, vol.14, pp.187-193, 2017 (SCI-Expanded)
- VI. **Selective Synthesis of Tripyrranes, Tetrapyrroles, and Corroles**  
AYDIN G., TEMELLİ B., ÜNALEROĞLU C.  
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, no.34, pp.7583-7593, 2015 (SCI-Expanded)
- VII. **Electrochemistry of poly(5-phenyl dipyrromethane) and its characterization**  
BOLAT G., Kuralay F., TEMELLİ B., ÜNALEROĞLU C., ABACI S.  
POLYMER BULLETIN, vol.72, no.4, pp.867-879, 2015 (SCI-Expanded)
- VIII. **Access to pyrrole-based heterocyclic compounds via addition of pyrrole to C=C and C=N bonds**  
ÜNALEROĞLU C., TEMELLİ B., Tasgin D. I.  
PURE AND APPLIED CHEMISTRY, vol.86, no.6, pp.925-932, 2014 (SCI-Expanded)
- IX. **Direct Transformation of Primary Nitro Compounds into Nitriles with Sodium Dithionite**  
Temelli B., ÜNALEROĞLU C.  
SYNTHESIS-STUTTGART, vol.46, no.10, pp.1407-1412, 2014 (SCI-Expanded)
- X. **A new reagent for the synthesis of [26]hexaphyrin: N-sulfonyl aldimine**  
Cinar S., TEMELLİ B., ÜNALEROĞLU C.  
TETRAHEDRON LETTERS, vol.55, no.2, pp.544-547, 2014 (SCI-Expanded)
- XI. **Scalable total synthesis of (-)-berkelic acid by using a protecting-group-free strategy**  
Fañanás F. J., Mendoza A., Arto T., Temelli B., Rodríguez F.  
Angewandte Chemie - International Edition, vol.51, no.20, pp.4930-4933, 2012 (SCI-Expanded)
- XII. **RECOVERABLE AND REUSABLE CATALYST FOR THE REACTION OF N-TOSYL IMINES WITH PYRROLE: SYNTHESIS OF MESO-TETRAARYLPORPHYRINS**  
TEMELLİ B., OZDEMIR S. S.  
HETEROCYCLES, vol.85, no.4, pp.851-860, 2012 (SCI-Expanded)
- XIII. **The reaction of N-tosyl imines with heteroaromatic compounds: a new access to triheteroarylmethanes**  
Temelli B., Tasgin D. I., ÜNALEROĞLU C.  
TETRAHEDRON, vol.66, no.34, pp.6765-6768, 2010 (SCI-Expanded)

- XIV. **An Efficient Synthetic Route for Pyrrolizinone Synthesis through Functionalized C-Alkylpyrroles**  
 ÜNALEROĞLU C., Tasgin D. I., Aytac S., TEMELLİ B.  
 SYNTHESIS-STUTT GART, no.19, pp.3243-3250, 2009 (SCI-Expanded)
- XV. **Synthesis of meso-tetraphenyl porphyrins via condensation of dipyrromethanes with N-tosyl imines**  
 TEMELLİ B., ÜNALEROĞLU C.  
 TETRAHEDRON, vol.65, no.10, pp.2043-2050, 2009 (SCI-Expanded)
- XVI. **Regioselective alkylation of pyrrole with 2-benzylidenemalononitriles catalyzed by Cu(OTf)<sub>2</sub>**  
 Tasgin D. I., TEMELLİ B., Yazici A., Aytac S., ÜNALEROĞLU C.  
 LETTERS IN ORGANIC CHEMISTRY, vol.5, no.3, pp.165-168, 2008 (SCI-Expanded)
- XVII. **Copper triflate catalyzed regioselective alkylation of pyrrole: Conversion of 2-alkylated pyrroles to novel pyrrolizine derivatives by self-cyclization**  
 ÜNALEROĞLU C., Aytac S., TEMELLİ B.  
 HETEROCYCLES, vol.71, no.11, pp.2427-2440, 2007 (SCI-Expanded)
- XVIII. **A novel method for the synthesis of dipyrromethanes by metal triflate catalysis**  
 Temelli B., Unaleroglu C.  
 TETRAHEDRON, vol.62, no.43, pp.10130-10135, 2006 (SCI-Expanded)
- XIX. **Regioselective addition of pyrrole to N-tosyl imines in the presence of Cu(OTf)<sub>2</sub>**  
 Temelli B., Unaleroglu C.  
 TETRAHEDRON LETTERS, vol.46, no.46, pp.7941-7943, 2005 (SCI-Expanded)
- XX. **Metal triflates-catalyzed conjugate addition of homochiral Pyrroles to alpha,beta-unsaturated esters**  
 Unaleroglu C., Temelli B., Demir A. s.  
 SYNTHESIS-STUTT GART, no.15, pp.2574-2578, 2004 (SCI-Expanded)
- XXI. **A facile synthesis and characterization of the novel 2,2-dichloro-1-[3-(2,2-dichloro-acetyl)-2-(4-methoxy-phenyl)-imidazolidin-1-yl]-ethanone**  
 UNALEROGLU C., TEMELLI B., Hokelek T.  
 SYNTHETIC COMMUNICATIONS, vol.32, no.21, pp.3255-3261, 2002 (SCI-Expanded)
- XXII. **Conformational and structural analysis of N-N'-bis (4-methoxybenzylidene)ethylenediamine**  
 UNALEROGLU C., TEMELLI B., Hokelek T.  
 JOURNAL OF MOLECULAR STRUCTURE, vol.570, pp.91-95, 2001 (SCI-Expanded)

### Refereed Congress / Symposium Publications in Proceedings

- I. **β-mezo Pozisyonlarından Bağlı İkili Porfirin Bileşiklerinin Adler-Longo Metodu ile Sentez**  
 kalkan h., TEMELLİ B.  
 29. Ulusal Kimya Kongresi, Turkey, 10 - 14 September 2017
- II. **Synthesis and Photophysical Properties of Porphyrin Corrole Hybrid Compounds**  
 TEMELLİ B.  
 6th EuCheMS (European Chemistry Congress) 2016, Sevilla, Spain, 11 - 15 September 2016
- III. **Preparation of New Porphyrin Corrole Hybrid Dyads**  
 Kalkan H., TEMELLİ B.  
 6th EuCheMS (European Chemistry Congress) 2016, Sevilla, Spain, 11 - 15 September 2016
- IV. **The synthesis of imine bridged porphrin corrole dyads and triads**  
 ÖZGÜN Ö., GÜNDÜZ M., KALKAN H., TEMELLİ B.  
 Anatolian Conference on Synthetic Organic Chemistry, Antalya, Turkey, 16 - 19 March 2015

### Supported Projects

TEMELLİ B., Project Supported by Higher Education Institutions, Fonksiyonel grup içeren yeni porfirin bileşiklerinin sentezi, 2010 - Continues

TEMELLİ B., Project Supported by Higher Education Institutions, Üçlü Makrohalkalı Aromatik Bileşiklerin Sentezi ve Yapılarının Aydınlatılması, 2018 - 2019

TEMELLİ B., Project Supported by Higher Education Institutions, Mezo-mezo ve beta-mezo substitüye porfirin korol bileşiklerinin sentezi ve spektroskopik özellikleri, 2017 - 2018

TEMELLİ B., TUBITAK Project,  $\beta$  Mezo Pozisyonlarından Konjuge Yeni Porfirin Oligomerlerinin ve Porfirin Korol Hibrit Bileşiklerinin Sentezi ve Spektroskopik Özellikleri, 2015 - 2017

TEMELLİ B., Özaşık Ö., Gündüz M., Project Supported by Higher Education Institutions, İkili ve Üçlü Hibrit Makrohalkalı Aromatik Bileşiklerin Sentezi, Karakterizasyonu ve Fotofiziksel Özelliklerinin Tespiti, 2014 - 2017

TEMELLİ B., Project Supported by Higher Education Institutions, Porfirin Korol Hibrit Bileşiklerinin Sentezi ve Fotofiziksel Özellikleri, 2016 - 2016

TEMELLİ B., Project Supported by Higher Education Institutions, Nitril Bileşiklerinin Sentezinde Yeni Yaklaşımlar, 2015 - 2015

## Metrics

Publication: 26

Citation (WoS): 268

Citation (Scopus): 255

H-Index (WoS): 8

H-Index (Scopus): 8

## Non Academic Experience

Hacettepe Üniversitesi

Hacettepe Üniversitesi