

Prof. BARIŞ TEMELLİ

Personal Information

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International Researcher IDs

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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

Supervised 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

TEMELLİ B., İkili makrohalkalı aromatik hibrit bileşiklerinin sentezi ve yapılarının aydınlatılması, Postgraduate, Ö.ÖZAŞIK(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Corrole-based conjugated monomer as a new functional molecule for designing affinity interfaces**
Kalkan H., Karasu T., UZUN L., TEMELLİ B.
COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS, vol.703, 2024 (SCI-Expanded)
- II. **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)
- III. **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)
- IV. **Unexpected formation of β , 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)
- V. **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)
- VI. **Synthesis and spectroscopic properties of β -meso directly linked porphyrin-corrole hybrid compounds**
TEMELLİ B., KALKAN H.
Beilstein Journal of Organic Chemistry, vol.14, pp.187-193, 2017 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- 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. **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)
- XI. **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)
- XII. **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)
- XIII. **RECOVERABLE AND REUSABLE CATALYST FOR THE REACTION OF N-TOSYL IMINES WITH PYRROLE: SYNTHESIS OF MESO-TETRAARYLPORPHYRINS**
TEMELLİ B., OZDEMİR S. S.
HETEROCYCLES, vol.85, no.4, pp.851-860, 2012 (SCI-Expanded)
- XIV. **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)

- XV. **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)
- XVI. **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)
- XVII. **Regioselective alkylation of pyrrole with 2-benzylidenemalononitriles catalyzed by Cu(OTf)₂**
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)
- XVIII. **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)
- XIX. **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)
- XX. **Regioselective addition of pyrrole to N-tosyl imines in the presence of Cu(OTf)₂**
Temelli B., Unaleroglu C.
TETRAHEDRON LETTERS, vol.46, no.46, pp.7941-7943, 2005 (SCI-Expanded)
- XXI. **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)
- XXII. **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)
- XXIII. **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

- ALTUNTAŞ ÖZTAŞ N., TEMELLİ B., KAVLAK S., KURALAY F., ARİFİOĞLU T., Project Supported by Higher Education Institutions, Yeni Nesil Malzemelerin XRD ve FTIR Metotlarıyla Karakterizasyonu, 2022 - Continues
- TEMELLİ B., Project Supported by Higher Education Institutions, Fonksiyonel grup içeren yeni porfirin bileşiklerinin sentezi, 2010 - Continues
- TEMELLİ B., TUBITAK Project, Korol Bileşiklerinin Sentezi Üzerine Yeni Sentetik Metotlar, 2019 - 2020
- 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, β Mezo Pozisyonlarından Konjuge Yeni Porfirin Oligomerlerinin ve Porfirin Korol Hibrit Bileşiklerinin Sentezi ve Spektroskopik Özellikleri, 2015 - 2017
- TEMELLİ B., TUBITAK Project, β -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: 27
- Citation (WoS): 268
- Citation (Scopus): 255
- H-Index (WoS): 8
- H-Index (Scopus): 8

Non Academic Experience

- Hacettepe Üniversitesi
- Hacettepe Üniversitesi