Assoc. Prof. GÖZDE MURAT SALTAN



Personal Information

Email: gozde.murat@cbu.edu.tr
Web: https://avesis.mcbu.edu.tr/gozde.murat
Address: gozde.murat@cbu.edu.tr

International Researcher IDs
ORCID: 0000-0002-9097-3716
Publons / Web Of Science ResearcherID: DQK-2074-2022
ScopusID: 56623045900
Yoksis Researcher ID: 189555

Education

Doctorate, Manisa Celal Bayar University, Fen Bilimleri Enstitüsü, Chemistry, Turkey 2013 - 2018
Postgraduate, Manisa Celal Bayar University, Fen Bilimleri Enstitüsü, Chemistry, Turkey 2009 - 2013
Undergraduate, Anadolu University, İşletme Fakültesi, İşletme Bölümü, Turkey 2007 - 2011
Undergraduate, Ege University, Faculty of Science, Chemistry, Turkey 2005 - 2009

Foreign Languages

English

Certificates, Courses and Trainings

Foreign Language, İtalyanca Kursu-1. seviye, İtalyan Kültür Merkezi, 2005

Dissertations

Doctorate, Karışım heteroeklem güneş pilleri için modifiye edilmiş bazı doğal-küçük moleküllü boyaların sentezi ve optiksel özelliklerinin incelenmesi, Manisa Celal Bayar University, 2018
Postgraduate, Boya duyarlı güneş hücreleri için tasarlanmış yeni benzimidazol türü boyaların sentezi ve optiksel incelenmesi, 2013

Research Areas

Avesis Research Areas: Chemistry, Electromagnetic Methods, Sensors, Spectroscopical Methods, Electrochemistry, Organic Chemistry, Chemistry of Dyes and Pigments, Organic Spectroscopy, Natural Sciences
WoS Research Areas: Chemistry Organic

Scopus Research Areas: Organic Chemistry

Academic Positions

Assistant Professor, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Kimya, 2024 - Present
Research Assistant, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Kimya, 2010 - 2024

Academic and Administrative Experience

Deputy Head of Department, Manisa Celal Bayar University, Mühendislik Ve Doğa Bilimleri Fakültesi, Kimya, 2024 - 2026

Courses

Undergraduate
Sosyal Sorumluluk, Undergraduate, 2025 - 2026, 2024 - 2025, 2023 - 2024
Organik Kimya II Laboratuvarı, Undergraduate, 2025 - 2026, 2024 - 2025
Bitirme Projesi-I, Undergraduate, 2025 - 2026, 2024 - 2025, 2023 - 2024
Bitirme Projesi-II, Undergraduate, 2026 - 2027, 2025 - 2026, 2024 - 2025
Günlük Yaşamda Kimya, Undergraduate, 2026 - 2027, 2025 - 2026, 2024 - 2025
Organik Kimya I, Undergraduate, 2026 - 2027
İşletmede Mesleki Eğitim, Undergraduate, 2025 - 2026, 2024 - 2025
Kimya I, Undergraduate, 2025 - 2026
Organik Kimya I Laboratuvarı, Undergraduate, 2025 - 2026, 2024 - 2025
Heterosiklik Bileşikler, Undergraduate, 2024 - 2025
Nano Teknoloji, Undergraduate, 2023 - 2024
Meslek Etiği, Undergraduate, 2023 - 2024
Kimya, Undergraduate, 2023 - 2024
KIM 1311.1 Genel Kimya (2+2) (I. Öğretim), Undergraduate, 2020 - 2021

Articles

I. **1-H-indol-2,3-dione-based schiff base derivatives: Synthesis, optoelectronic properties, and DFT-theoretical insights for photovoltaic applications**
Murat Saltan G., Gümüştaş S., Saltan F.
OPTICAL MATERIALS, pp.1-13, 2025 (SCI-Expanded, Scopus)

II. **Photopolymerization and characterization of vinyl imidazole based allyl derivative polymers; Cr3+ and Cd2+ metal adsorption and antibacterial studies**
Saltan F., Saltan G., İLKTAÇ R., ÖZDOKUR K. V.
Journal of Applied Polymer Science, vol.141, no.32, 2024 (SCI-Expanded, Scopus)

III. **Perylene Diimide-Based Dimeric Electron Acceptors with Molecular Conformations for Perovskite Solar Cells**
Saltan G., Yeşil T., Ötken A. A., ZAFER C., DİNÇALP H.
CHEMPLUSCHEM, vol.89, no.7, 2024 (SCI-Expanded, Scopus)

IV. **Sensing behaviours to Fe3+, Co2+ ions and cyanide detection performance of 4,5-diazafluorene-based colorimetric chemosensors**
MURAT SALTAN G.
Bulletin of Materials Science, vol.46, no.3, 2023 (SCI-Expanded, Scopus)

V. **Conformational control of morphology for perylene diimide dimer as electron transporting material**

at perovskite surface
Ötken A. A., Saltan G., Yeşil T., ZAFER C., DİNÇALP H.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.441, 2023 (SCI-Expanded, Scopus)

VI. **Synthesis and Characterization of Terpolymer Adsorbents Using Photopolymerization: Investigation of Heavy Metal Adsorption Capacity**
MURAT G.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.16, no.2, 2023 (TRDizin)

VII. **Preparation of Expanded-Graphite Reinforced Poly(vinyl alcohol)/Polyvinyl pyrrolidone/Poly(acrylic acid-co-maleic acid) hydrogel films, Investigation of Swelling, Metal Adsorption, and Thermal Properties**
Saltan F., MURAT SALTAN G.
Polymer-Plastics Technology and Materials, vol.62, no.8, pp.960-973, 2023 (SCI-Expanded, Scopus)

VIII. **Synthesis of a new adsorbent poly(allylisothiocyanate-co-hydroxyethylmethacrylate-co-vinylimidazole) via photopolymerization: Characterization and investigation of heavy metal adsorption capacity**
Saltan F., Saltan G.
Journal of Applied Polymer Science, vol.139, no.29, 2022 (SCI-Expanded, Scopus)

IX. **Fluorene Based Ferric Complex as Colorimetric and Fluorometric Probe for Highly Selective Detection of CN− and S2− Anions**
MURAT SALTAN G., DİNÇALP H.
Journal of Fluorescence, vol.31, no.5, pp.1311-1321, 2021 (SCI-Expanded, Scopus)

X. **Synthesis and determination of fluorescence properties of new soluble diketopyrrolopyrrole type photosensitizers**
türkçen S., DİNÇALP H., MURAT SALTAN G.
Journal of Molecular Structure, vol.1195, pp.485-493, 2019 (SCI-Expanded, Scopus)

XI. **Bromo-substituted cibalackrot backbone, a versatile donor or acceptor main core for organic optoelectronic devices**
DİNÇALP H., Saltan G., ZAFER C., Kıymaz D. A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1173, pp.512-520, 2018 (SCI-Expanded, Scopus)

XII. **Synthesis and photophysical characterization of isoindigo building blocks as molecular acceptors for organic photovoltaics**
DİNÇALP H., Saltan G., ZAFER C., Mutlu A.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.202, pp.196-206, 2018 (SCI-Expanded, Scopus)

XIII. **Indigo-Based Acceptor Type Small Molecules: Synthesis, Electrochemical and Optoelectronic Characterizations**
Saltan G., Kıymaz D. A., ZAFER C., DİNÇALP H.
JOURNAL OF FLUORESCENCE, vol.28, no.5, pp.1239-1249, 2018 (SCI-Expanded, Scopus)

XIV. **Small biomolecule dopant retinals: Electron blocking layer in P3HT:PCBM type organic solar cells**
Kırmacı E., DİNÇALP H., Saltan G., Kıran M., ZAFER C.
SYNTHETIC METALS, vol.236, pp.8-18, 2018 (SCI-Expanded, Scopus)

XV. **Optoelectronic performance comparison of new thiophene linked benzimidazole conjugates with diverse substitution patterns**
Saltan G., DİNÇALP H., Kırmacı E., Kıran M., ZAFER C.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.188, pp.372-381, 2018 (SCI-Expanded, Scopus)

XVI. **Comparison of the Optoelectronic Performance of Neutral and Cationic Forms of Riboflavin**
Saltan G., Kıymaz D. A., ZAFER C., DİNÇALP H.
JOURNAL OF FLUORESCENCE, vol.27, no.6, pp.1975-1984, 2017 (SCI-Expanded, Scopus)

XVII. **Impact of the different electron-releasing subunits on the dye-sensitized solar cell performance of new triphenylamine-benzimidazole based molecules**

DİNÇALP H., Saltan G., Aykut D., ZAFER C.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.149, pp.157-165, 2015 (SCI-Expanded, Scopus)

XVIII. **Novel organic dyes based on phenyl-substituted benzimidazole for dye sensitized solar cells**
Saltan G., Dinçalp H., Kiran M., Zafer C., Erbaş S.
MATERIALS CHEMISTRY AND PHYSICS, vol.163, pp.387-393, 2015 (SCI-Expanded, Scopus)

XIX. **Functionalized bay-substituted perylene diimide additives for inverted organic photovoltaic devices based on P3HT/PCBM**
DİNÇALP H., Çmen O., MURAT SALTAN G., Çl S.
Journal of Optoelectronics and Advanced Materials, vol.17, no.5-6, pp.579-589, 2015 (SCI-Expanded, Scopus)

XX. **Improvement of intramolecular charge transfer within a donor-acceptor blend by doping novel synthesized benzothiadiazole small molecules in solid state**
DİNÇALP H., MURAT SALTAN G., Içli S.
Optical Materials, vol.36, no.9, pp.1525-1533, 2014 (SCI-Expanded, Scopus)

XXI. **Acid promoted intramolecular formation of 3,5-anhydro-1,4-furano-7-ulose derivatives via the Wittig-cyclization procedure and their antimicrobial properties**
Telli F. Ç., Ay K., Murat G., Kök G., Salman Y.
Medicinal Chemistry Research, vol.22, no.5, pp.2253-2259, 2013 (Scopus)

Papers Presented at Peer-Reviewed Scientific Conferences

I. **SYNTHESIS OF A NOVEL HYDRAZONE-CONTAINING SOLUBLE PROBE: CHARACTERISATION AND INVESTIGATION OF THEIR COLORIMETRIC SENSOR PROPERTIES TOWARDS MERCURY (II) AND COPPER (II) IONS**
MURAT SALTAN G.
2nd International Paris Congress on Applied Sciences, Paris, France, 25 - 27 August 2023, (Summary Text)

II. **SYNTHESIS OF NEW 1-H-INDOL-2,3-DION BASED SCHIFF BASE DERIVATIVES FOR PHOTOVOLTAIC SYSTEMS AND INVESTIGATION OF THEIR OPTOELECTRONIC PROPERTIES**
MURAT SALTAN G.
10th INTERNATIONAL ZEUGMA CONFERENCE ON SCIENTIFIC RESEARCH, Gaziantep, Turkey, 25 - 26 June 2023, (Summary Text)

III. **SYNTHESIS OF NEW PERYLENE DIIMIDE DIMER TYPE MOLECULES AND INVESTIGATION OF OPTOELECTRONIC PROPERTIES FOR PEROVSKITE LAYERS IN PHOTOVOLTAIC DEVICES**
MURAT SALTAN G., ZAFER C., DİNÇALP H.
7 th International Conference on Innovative Studies of Contemporary Sciences (TOKYO SUMMIT-VII), Tokyo, Japan, 21 - 23 April 2023, (Summary Text)

IV. **Çözünür, Yeni Diketopirolopirol Türevi Fotosensörlerin Sentezi ve Floresans Özelliklerinin Belirlenmesi**
TÜRKÇEN S., DİNÇALP H., MURAT G.
30. Ulusal Kimya Kongresi, Turkey, 5 - 08 November 2018, (Summary Text)

V. **Synthesis and Photovoltaic Applications of Indigo-Type Acceptor Small Molecules**
MURAT G., DİNÇALP H., ZAFER C., Kıymaz D. A.
13. Nanoscience and Nanotechnology Conference, Antalya, Turkey, 22 - 25 October 2017, (Summary Text)

VI. **Isoindigo Building Blocks as Molecular Acceptors for Solution-Processed Inverted Organic Solar Cells**
DİNÇALP H., MURAT G., ZAFER C., Mutlu A.
4th International Conference on Materials Science and Nanotechnology For Next generation (MSNG-2017), Saraybosna, Bosnia And Herzegovina, 28 - 30 June 2017, (Summary Text)

VII. **Brom-Substituted Cibalackrot Backbone, a Versatile Electron-Deficient Main Core for Organic Optoelectronic Devices**

DİNÇALP H., MURAT G., ZAFER C., Kiymaz D. A.
4th International Conference on Materials Science and Nanotechnology For Next generation (MSNG-2017), Saraybosna, Bosnia And Herzegovina, 28 - 30 June 2017, (Summary Text)

VIII. **Synthesis and Determination of Fluorescence Properties of New, Soluble Diketopyrrolopyrrole Type OPV Materials**
TÜRKÇEN S., MURAT G., DİNÇALP H.
12. International Nanoscience and Nanotechnology Conference, Kocaeli, Turkey, 3 - 05 June 2016, (Summary Text)

IX. **Comparison of the Optoelectronic Performance of Neutral and Cationic Form of Riboflavin**
MURAT G., DİNÇALP H., KIRAN M., ZAFER C.
12. International Nanoscience and Nanotechnology Conference, Kocaeli, Turkey, 3 - 05 June 2016, (Summary Text)

X. **Benzimidazole Thiophene Based Small Molecules with Various Electronic Subunits for Organic Solar Cell Applications**
MURAT G., kırmacı e., DİNÇALP H., kıran m., ZAFER C.
12. International Nanoscience and nanotechnology conference, Kocaeli, Turkey, 3 - 05 June 2016, (Summary Text)

XI. **YENİ RETİNAL BENZİMİDAZOL ESASLI BOYALARIN SENTEZİ OPTİKSEL VE ELEKTROKİMYASAL ÖZELLİKLERİNİN İNCELENMESİ**
KIRMACI E., DİNÇALP H., MURAT G., KIRAN M., ZAFER C.
27. ULUSAL KİMYA KONGRESİ, Çanakkale, Turkey, 23 - 28 August 2015, (Summary Text)

XII. **SMALL BIOMOLECULE DOPANT MATERIALS INORGANIC SOLAR CELLS**
Kıran M., ZAFER C., DİNÇALP H., MURAT G., Kırmacı E.
3. Turkish Solar Electricity Conference and Exhibition, Ankara, Turkey, 27 - 29 April 2015, (Summary Text)

XIII. **Novel Organic Dyes Based on Phenyl substituted Benzimidazole Donor for Dye Sensitized Solar Cells**
Murat G., Dinçalp H., Çelik Erbaş S., Kıran M., Zafer C.
10th Nanoscienceand Nanotechnology Conference of Turkey (NanoTR10), İstanbul, Turkey, 17 - 21 June 2014, (Summary Text)

XIV. **Impact of the Different Electron Releasing Subunits on the Dye Sensitized Solar Cell Performances of Novel Triphenylamine Benzimidazole Based Molecules**
DİNÇALP H., MURAT G., AYKUT D., ZAFER C.
International Conference on Hybrid and Organic Photovoltaics, LOZAN, Switzerland, 11 - 14 May 2014, (Summary Text)

XV. **Benzotiyadiazol Çıkışlı Fotovoltaik Materyallerin Sentezi**
MURAT G., DİNÇALP H.
26. Uluslararası Katılımlı Ulusal Kimya Kongresi, Muğla, Turkey, 1 - 06 October 2012, (Summary Text)

XVI. **Benzotiyadiazol İçeren Trifenilamin Grubu Boyaların Sentezi veOptik Özellikleri**
MURAT G., DİNÇALP H.
25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011, (Summary Text)

Funded Projects

MURAT SALTAN G., Project Supported by Higher Education Institutions, Vinil İmidazol Bazlı Allil Türevi Polimerlerin Sentezi ve Karakterizasyonu; Metal Bağlama Kapasitelerinin Belirlenmesi ve Antimikrobiyal Özelliklerinin İncelenmesi, 2021 - 2023

Dinçalp H., Zafer C., Murat Saltan G., TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Perovskit Güneş Hücreleri İçin Farklı Moleküler Konformasyonlara Sahip, Yeni Perilen Diimit Türevi Elektron Taşıyıcıların Geliştirilmesi, 2019 - 2022

MURAT SALTAN G., DİNÇALP H., Project Supported by Higher Education Institutions, Metal İyonu Tespiti İçin Yeni 4,5-Diazafloren-9-On Esaslı Bifonksiyonel Sensör Tasarımı ve Karakterizasyonu, 2018 - 2021

MURAT SALTAN G., TÜRKÇEN S., DİNÇALP H., Project Supported by Higher Education Institutions, Çözünür Yeni Diketopirolopirol Türevi Fotosensörlerin Sentezi ve Floresans Özelliklerinin Belirlenmesi, 2016 - 2018

MURAT SALTAN G., DİNÇALP H., Project Supported by Higher Education Institutions, Karışım Heteroeklem Güneş Pilleri

İçin Modifiye Edilmiş Bazı Doğal-Küçük Moleküllü Boyaların Sentezi ve Optiksel Özelliklerinin Belirlenmesi, 2015 - 2017
Dinçalp H., Zafer C., TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Modifiye Edilmiş Doğal-Biyo Kaynakli Boyalar Kullanarak Küçük Moleküllü Organik Güneş Pillerinin Üretimi, 2013 - 2017
MURAT SALTAN G., MURAT G., DİNÇALP H., Project Supported by Higher Education Institutions, Reaktif Grup Taşıyan Trifenilamin Türü Moleküllerin Sentezi, 2013 - 2014
Çelik Erbaş S., Murat Saltan G., Dinçalp H., Project Supported by Higher Education Institutions, BAP Research Project, Boya-Uyarımlı Güneş Pilleri İçin Trifenilamin Esaslı Boyaların Sentezlenmesi veÖzelliklerinin İncelenmesi_2010-050 nolu proje, 2011 - 2013

Memberships and Roles in Scientific Organizations

MCBÜ Sürdürülebilir Yerleşkeler Koordinatörlüğü Çevre Komisyonu, Member, 2024 - Present, Turkey

Metrics

Publication: 37
Citation (WoS): 121
Citation (Scopus): 135
H-Index (WoS): 6
H-Index (Scopus): 7

Awards

MURAT SALTAN G., Isoindigo Building Blocks as Molecular Acceptors for Solution Processed Inverted Organic Solar Cell, FIRAT ÜNİVERSİTESİ, January 2017
MURAT SALTAN G., YÜKSEK LİSANS TEZ ÖDÜLÜ, CELÂL BAYAR ÜNİVERSİTESİ, January 2015