

## Asst. Prof. Derya Güngördü Solğun

### Personal Information

**Email:** deryagungordu@yyu.edu.tr

**Web:** <https://avesis.yyu.edu.tr/deryagungordusolgun>

### International Researcher IDs

ORCID: 0000-0001-9492-5669

### Education Information

Doctorate, Van Yüzüncü Yil University, Fen Fakültesi, Kimya Bölümü, Turkey 2014 - 2020

Associate Degree, Anadolu University, Open Education Faculty, Department Of Theology, Turkey 2016 - 2018

Postgraduate, Van Yüzüncü Yil University, Fen Fakültesi, Kimya Bölümü, Turkey 2009 - 2011

Undergraduate, Van Yüzüncü Yil University, Fen Fakültesi, Kimya Bölümü, Turkey 2005 - 2009

### Dissertations

Doctorate, YENİ FTALOSİYANİN KOMPLEKSLERİNİN SENTEZİ VE BOYAYA DUYARLI GÜNEŞ PİLLERİ İÇİN UYGUNLUĞUNUN İNCELENMESİ, Van Yüzüncü Yil University, Fen Fakültesi, Kimya Bölümü, 2020

Postgraduate, BAZI FURANDİONLARIN İNDOL VE 2-METİL İNDOL NÜKLEOFİLLERİYLE REAKSİYONLARININ ARAŞTIRILMASI, Van Yüzüncü Yil University, Fen Fakültesi, Kimya Bölümü, 2011

### Research Areas

Chemistry, Inorganic Chemistry, Organic Chemistry, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Van Yüzüncü Yil University, Muradiye Meslek Yüksekokulu, Kimya Ve Kimyasal İşletme Teknolojileri Bölümü, 2021 - Continues

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

- I. **Synthesis, photophysical, photochemical, and DFT properties of a zinc phthalocyanine with 2-(2-isopropyl-5-methylphenoxy)phenoxy peripheral groups**

Güngördü Solğun D., YILDIKO Ü., Ağırtaş M. S.

JOURNAL OF COORDINATION CHEMISTRY, 2022 (Peer-Reviewed Journal)

- II. **Metal contained Phthalocyanines with 3,4-Dimethoxyphenethoxy substituents: their anticancer, antibacterial activities and their inhibitory effects on some metabolic enzymes with molecular docking studies**

Taslimi P., TÜRKAN F., Gungordu Solgun D., Aras A., ERDEN Y., ÇELEBİOĞLU H. U., TÜZÜN B., Ağırtaş M. S., Gunay S., GÜLÇİN İ.

JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.40, no.7, pp.2991-3002, 2022 (Peer-Reviewed)

Journal)

- III. **Synthesis and Sensor Properties of Silicon Phthalocyanine Axially Substituted with Bis-(Prop-2-Ynyloxy) Groups and Polymeric Phthalocyanines Bearing PEG Substituent by "Click" Chemistry**  
Ağırtaş M. S. , Güngördü Solğun D., Savas B., ÖZTÜRK T.  
POLYCYCLIC AROMATIC COMPOUNDS, 2022 (Peer-Reviewed Journal)
- IV. **Synthesis, theoretical DFT analysis, photophysical and photochemical properties of a new zinc phthalocyanine compound**  
Ağırtaş M. S. , Güngördü Solğun D., YILDİKO Ü.  
INORGANIC AND NANO-METAL CHEMISTRY, 2022 (Peer-Reviewed Journal)
- V. **Photovoltaic performance properties, DFT studies, and synthesis of (E)-3-(diphenxy) acrylic acid substituted phthalocyanine complexes**  
Güngördü Solğun D., Yıldiko Ü., Özkartal A., Ağırtaş M. S.  
Chemical Papers, vol.75, pp.6285-6295, 2021 (Peer-Reviewed Journal)
- VI. **Synthesis, DFT Calculations, Photophysical, Photochemical Properties of Peripherally Metallophthalocyanines Bearing (2-(Benzo[d] [1,3] Dioxol-5-Yl-methoxy) Phenoxy) Substituents**  
Solğun D., Yıldiko Ü., Ağırtaş M. S.  
Polycyclic Aromatic Compounds, 2021 (Peer-Reviewed Journal)
- VII. **DFT analysis and electronic properties, and synthesis of tetra (9-phenyl-9H-xanthen-9-yl) oxy peripheral-substituted zinc phthalocyanine**  
Solğun D., Keskin M. S. , YILDİKO Ü., Ağırtaş M. S.  
CHEMICAL PAPERS, vol.74, no.8, pp.2389-2401, 2020 (Peer-Reviewed Journal)
- VIII. **Design of novel substituted phthalocyanines; synthesis and fluorescence, DFT, photovoltaic properties**  
Ağırtaş M. S. , Güngördü Solğun D., Yıldiko Ü., Özkartal A.  
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.6, pp.1574-1596, 2020 (Peer-Reviewed Journal)
- IX. **Synthesis of Tetra 3,4-dimethoxyphenethoxy Peripheral Substituted Metallophthalocyanines and Investigation of Some Properties**  
Ağırtaş M. S. , SOLGUN D., Ozdemir S., Izgi M. S.  
CHEMISTRYSELECT, vol.3, no.12, pp.3523-3528, 2018 (Peer-Reviewed Journal)
- X. **Synthesis of novel tetra (4-tritylphenoxy) substituted metallophthalocyanines and investigation of their aggregation, photovoltaic, solar cell properties**  
SOLGUN D., Horoz S., Ağırtaş M. S.  
INORGANIC AND NANO-METAL CHEMISTRY, vol.48, no.10, pp.508-514, 2018 (Peer-Reviewed Journal)

## Articles Published in Other Journals

- I. **Preparation of Metal Complexes of 4,5-Dichlorophthalic Acid as Nanoscale and Electronic Properties**  
Keskin M. S. , Yıldiko Ü., Güngördü Solğun D., Ağırtaş M. S.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, no.3, pp.1865-1875, 2020 (Peer-Reviewed Journal)
- II. **DNA binding studies of the 2,10,16,24-tetrakis (phenoxy-3-methoxybenzoic acid)phthalocyaninato) Co(II) and Cu(II) compounds**  
Ballı Z., Arslantas A., Solğun D., Ağırtaş M. S.  
SN APPLIED SCIENCES, vol.2, no.5, 2020 (Peer-Reviewed Journal)
- III. **Photovoltaic, thermal, fluorescence and aggregation properties of non-peripherally metallophthalocyanines bearing four 3,4-dimethoxyphenethoxy substituents**  
Güngördü Solğun D., Ağırtaş M. S. , Horoz S.  
International Journal of Chemistry and Technology, vol.4, no.1, pp.8-15, 2020 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **2-(2-İzopropil-5-metilfenoksi)fenoksi Sübstütü Kobalt, Bakır Ftalosiyanın Bileşiklerinin Sentezi ve Karakterizasyonu**  
Güngördü Solğun D., Ağırtaş M. S.  
4th International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 24 - 26 November 2021, pp.1142
- II. **Tetra (benzil 2-fenoksi benzoat) Sübstütü Çinko Ftalosiyanın Sentezi ve Elektronik Özellikleri**  
Güngördü Solğun D., Ağırtaş M. S.  
4th International Eurasian Conference on Biological and Chemical Sciences , Ankara, Turkey, 24 - 26 November 2021, pp.330
- III. **Synthesis of (4-hydroxy-3-methoxybenzoyl) oxy-silver Compound; A comparative MP2 and DFT study**  
Güngördü Solğun D., Yıldık Ü., Ağırtaş M. S.  
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), Ankara, Turkey, 28 - 29 June 2019, pp.246
- IV. **Antioxidant properties of 3,4-dimethoxyphenethoxy peripheral substituted metallophthalocyanines compounds**  
Güngördü Solğun D., Ağırtaş M. S. , Özdemir S.  
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), Ankara, Turkey, 28 - 29 June 2019, pp.765
- V. **Tritilfenoksi substituentli ftalosiyanınlerin karakterizasyonu ve bazı özelliklerinin araştırılması**  
Güngördü Solğun D., Ağırtaş M. S. , Horoz S.  
Uluslararası Katılımlı VII.Ulusal Anorganik Kimya Kongresi, Çorum, Turkey, 19 - 22 June 2019
- VI. **9-fenil-9h-ksantan-9-il oksii substituentli ftalosiyanın sentezi ve DFT analizi**  
İşcan Ö., Güngördü Solğun D., Yıldık Ü., Ağırtaş M. S.  
Uluslararası Katılımlı VII.Ulusal Anorganik Kimya Kongresi, Çorum, Turkey, 19 - 22 June 2019

## Metrics

Publication: 19

Citation (WoS): 34

Citation (Scopus): 35

H-Index (WoS): 4

H-Index (Scopus): 4

## Congress and Symposium Activities

4th International Eurasian Conference on Biological and Chemical Sciences, Attendee, Ankara, Turkey, 2021

4th International Eurasian Conference on Biological and Chemical Sciences, Attendee, Ankara, Turkey, 2021

2.nd International Eurasian Conference on Biological and Chemical Sciences. ANKARA, TÜRKİYE, Attendee, Ankara, Turkey, 2018

2.nd International Eurasian Conference on Biological and Chemical Sciences. ANKARA, TÜRKİYE, Attendee, Ankara, Turkey, 2018

VII.Ulusal Anorganik Kimya Kongresi, Attendee, Çorum, Turkey, 2018

Uluslararası Katılımlı VII.Ulusal Anorganik Kimya Kongresi, Attendee, Çorum, Turkey, 2018