

## Res. Asst. EDA ALEMDAR

### Personal Information

Office Phone: [+90 312 210 7616](tel:+903122107616)

Email: [ealemdar@metu.edu.tr](mailto:ealemdar@metu.edu.tr)

Web: <https://avesis.metu.edu.tr/ealemdar>

Address: [ealemdar@metu.edu.tr](mailto:ealemdar@metu.edu.tr)

### Education Information

Doctorate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey 2017 - Continues

Postgraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey 2015 - 2017

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey 2010 - 2015

### Dissertations

Postgraduate, Functionalization of nanomaterial: Applied for environmental remediation, Orta Doğu Teknik Üniversitesi, Faculty of Arts and Sciences, Department of Chemistry, 2017

### Research Areas

Conductive Polymers, Characterization of Polymers, New Technologies in Polymer Chemistry, Polymeric Films, Polymeric Materials, Surface Chemistry

### Academic Titles / Tasks

Research Assistant, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, 2015 - 2023

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Investigation the effect of  $\pi$  bridge and side chain on photovoltaic properties of benzodithiophene and quinoxaline based conjugated polymers**  
TAŞKAYA ASLAN S., Alemdar Yılmaz E., Hacıfendioğlu T., UDUM Y., TOPPARE L. K. , YILDIRIM E., ÇIRPAN A.  
European Polymer Journal, vol.169, 2022 (Journal Indexed in SCI Expanded)
- II. **Non-fullerene organic photovoltaics based on thienopyrroledione comprising random copolymers; effect of alkyl chains**  
Yasa M., Depci T., Alemdar E., Hacıoğlu Ş., Çırpan A., Toppare L. K.  
RENEWABLE ENERGY, vol.178, pp.202-211, 2021 (Journal Indexed in SCI)
- III. **A comprehensive study: Theoretical and experimental investigation of heteroatom and substituent effects on frontier orbitals and polymer solar cell performances**

Cevher Ş. C. , Hizalan G., Alemdar Yılmaz E., Cevher D., Udum Arslan Y., Toppare L., Yıldırım E., Çirpan A.  
JOURNAL OF POLYMER SCIENCE, vol.58, no.19, pp.2792-2806, 2020 (Journal Indexed in SCI)

IV. **Synthesis and characterization of optical, electrochemical and photovoltaic properties of selenophene bearing benzodithiophene based alternating polymers**

Atli G. O. , Yılmaz E., Aslan S., Udum Y. A. , Toppare L. K. , ÇIRPAN A.

JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.862, 2020 (Journal Indexed in SCI)

## Refereed Congress / Symposium Publications in Proceedings

I. **Non-fullerene organic solar cells based on thienopyrroledione comprising random copolymers; effect of alkyl chains**

Yaşa M., Depci T., Alemdar E., Özdemir Hacıoğlu Ş., Çirpan A., Toppare L. K.

2 International Conference on Photovoltaic Science and Technologies, Ankara, Turkey, 30 November - 02 December 2020, pp.79-80

II. **Flexible Organic Light Emitting Diodes (OLEDs) with multi-layer Graphene Anode**

Sharif P., ALEMDAR E., GÜNBAŞ E. G. , ÇIRPAN A., ORAL A.

Graphene2020 Virtual International Conference Expo, 19 - 23 October 2020

III. **Flexible Organic Light Emitting Diodes (OLEDs) with multi-layer Graphene Anode**

Sharif P., ALEMDAR E., GÜNBAŞ E. G. , ÇIRPAN A., ORAL A.

Graphene2020 Virtual International Conference Expo, 19 - 23 October 2020

## Edit Congress and Symposium Activities

PVCON2020, Attendee, Ankara, Turkey, 2020

PVCON2020, Attendee, Ankara, Turkey, 2020

pvcon2020, Attendee, Ankara, Turkey, 2020

Polimer2018, Attendee, Eskişehir, Turkey, 2018

PVCON 2018, Attendee, Ankara, Turkey, 2018

## Citations

Total Citations (WOS):7

h-index (WOS):2