

Res. Asst. EDA ALEMDAR

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-8468-2020

ScopusID: 57211493443

Yoksis Researcher ID: 240331

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

Published journal articles indexed by SCI, SSCI, and AHCI

- A follow-up investigation: Organic solar cells based on chalcogenophene-Thieno[3,4-c]pyrrole-4,6-dione-chalcogenophene containing random conjugated polymers**
Alemdar E., Yasa M., Cirpan A., Toppare L. K.
Journal of Electroanalytical Chemistry, vol.932, 2023 (SCI-Expanded)

- II. **Boosting the efficiency of organic solar cells via plasmonic gold nanoparticles and thiol functionalized conjugated polymer**
Karakurt O., Alemdar E., Erer M. C., Cevher D., Gulmez S., Taylan U., Cevher S. C., Ozsoy G. H., Ortac B., Cirpan A. *Dyes and Pigments*, vol.208, 2022 (SCI-Expanded)
- III. **Rational Molecular Design Enables Efficient Blue TADF–OLEDs with Flexible Graphene Substrate**
Sharif P., Alemdar E., Ozturk S., Caylan O., Haciefendioğlu T., Buke G., Aydemir M., Danos A., Monkman A. P., Yıldırım E., et al. *Advanced Functional Materials*, vol.32, no.47, 2022 (SCI-Expanded)
- IV. **Investigation the effect of π bridge and side chain on photovoltaic properties of benzodithiophene and quinoxaline based conjugated polymers**
TAŞKAYA ASLAN S., Alemdar Yılmaz E., Haciefendioğlu T., UDUM Y., TOPPARE L. K., YILDIRIM E., ÇIRPAN A. *European Polymer Journal*, vol.169, 2022 (SCI-Expanded)
- V. **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 (SCI-Expanded)
- VI. **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., Çırpan A. *JOURNAL OF POLYMER SCIENCE*, vol.58, no.19, pp.2792-2806, 2020 (SCI-Expanded)
- VII. **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 (SCI-Expanded)

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., Çırpan 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

Metrics

Publication: 14

Citation (WoS): 48

Citation (Scopus): 52

H-Index (WoS): 5

H-Index (Scopus): 5

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