

## Res. Asst. MERVE AKBAYRAK

### Personal Information

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### Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Kimya (Dr), Turkey 2016 - Continues

Post Graduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Kimya (YI) (Tezli), Turkey 2014 - 2016

Under Graduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey 2009 - 2014

### Dissertations

Post Graduate, Synthesis and electropolymerization of new hybrid monomers containing carbazole units, Middle East Technical University, Graduate School of Natural and Applied Sciences, Kimya (YI) (Tezli), 2016

### Research Areas

Natural Sciences

### Academic Titles / Tasks

Research Assistant, Middle East Technical University, Graduate School of Natural and Applied Sciences, 2015 - Continues

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

- I. **High Durability and Electrocatalytic Activity Toward Hydrogen Evolution Reaction with Ultralow Rhodium Loading on Titania**  
AKBAYRAK M., ÖNAL A. M.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.167, no.15, 2020 (Journal Indexed in SCI)
- II. **Binder- free iridium based electrocatalysts: Facile preparation, high activity and outstanding stability for hydrogen evolution reaction in acidic medium**  
Akbayrak M., Önal A. M.  
Journal Of Colloid And Interface Science, vol.580, pp.11-20, 2020 (Journal Indexed in SCI)
- III. **Efficient Ceria-Supported Rhodium Nanoparticles as an Electrocatalyst for Hydrogen Evolution**  
AKBAYRAK M., ÖNAL A. M.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.166, no.16, 2019 (Journal Indexed in SCI)
- IV. **Synthesis and electro-optical properties of a new copolymer based on EDOT and carbazole**

AKBAYRAK M., ERGÜN E. G. C. , ÖNAL A. M.

DESIGNED MONOMERS AND POLYMERS, vol.19, no.7, pp.679-687, 2016 (Journal Indexed in SCI)

V. **Effect of Thiophene Units on the Properties of Donor Acceptor Type Monomers and Polymers Bearing Thiophene-Benzothiadiazole- Scaffolds**

Cansu-Ergun E. G. , AKBAYRAK M., AKDAĞ A., ÖNAL A. M.

JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.163, no.10, 2016 (Journal Indexed in SCI)

VI. **Synthesis and electrochemical polymerization of diketopyrrolopyrrole based donor-acceptor-donor monomers containing 3,6-and 2,7-linked carbazoles**

Akbayrak M., Önal A. M.

POLYMER CHEMISTRY, vol.7, pp.6110-6119, 2016 (Journal Indexed in SCI)

## Refereed Congress / Symposium Publications in Proceedings

I. **Synthesis and Electrochemical Polymerization of Diketopyrrolopyrrole Based Donor-Acceptor-Donor Monomers Containing 3,6- and 2,7-linked Carbazoles**

ÖNAL A. M. , AKBAYRAK M.

The 69th Annual Meeting of the International Society of Electrochemistry, 2 - 07 September 2018

II. **SYNTHESIS AND ELECTROPOLYMERIZATION OF NEW HYBRID MONOMERS CONTAINING CARBAZOLE UNITS**

AKBAYRAK M., ÖNAL A. M.

International Congress on Semiconductor Materials and Devices (ICSMD-2017), 17 August 2016 - 19 August 2017

III. **Karbazol Birimleri İçeren Yeni Hibrit Monomerlerin Sentezi Ve Elektrokimyasal Polimerizasyonu**

AKBAYRAK M., ÖNAL A. M.

29. Ulusal Kimya Kongresi, Turkey, 10 - 14 September 2017

## Citations

Total Citations (WOS):32

h-index (WOS):4