

## Lect. MEHMET AKİF ÖZDEMİR

### Personal Information

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### Education Information

Doctorate, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, Turkey 2022 - Continues

Postgraduate, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, Turkey 2019 - 2021

Undergraduate, Ege University, Faculty Of Engineering, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2007 - 2012

### Research Areas

Power Converters

### Academic Titles / Tasks

Lecturer, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2018 - Continues

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

- I. **Design and Implementation of Peak Current Mode with PI Controller for Coupled Inductor-Based High-Gain Z-Source Converter**  
Özer Ş. C., Dağ B., Demirel S., Özdemir M. A.  
ELECTRONICS (Basel), vol.13, no.15, pp.1-16, 2024 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Design of Impedance Source Step-up Converter for High DC Voltage Applications**  
Dag B., Özdemir M. A., Tamyürek B., Aydın E., Aydemir M. T.  
EMO Bilimsel Dergi, vol.13, no.1, pp.23-30, 2023 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Parallel-Input Series-Output Z-Source Converters for High Voltage DC Power Supplies**  
ÖZDEMİR M. A., Aydın E., DAĞ B., TAMYÜREK B., Aydemir M. T.  
2023 IEEE Energy Conversion Congress and Exposition, ECCE 2023, Tennessee, United States Of America, 29 October - 02 November 2023, pp.2103-2108
- II. **A Load Adaptive Cascade PI Controller for Buck Converters Operating in Wide Load Range in Cathodic Protection Systems**  
ÖZDEMİR M. A., Simsek O., Aydemir M. T.

8th International Conference on Electrical and Electronics Engineering, ICEEE 2021, Antalya, Turkey, 9 - 11 April 2021, pp.73-79

**III. Design and Practical Implementation of a Parallel-Switched Power Factor Correction Boost Converter**

Rahman S., Kosesoy Y., ÖZDEMİR M. A., Simsek O., Aydemir M. T., Chub A.

14th IEEE International Conference on Industry Applications (INDUSCON), ELECTR NETWORK, 15 - 18 August 2021, pp.395-400

## **Metrics**

Publication: 5

## **Congress and Symposium Activities**

ICEEE 2021, Attendee, Antalya, Turkey, 2021