

## Asst. Prof. BÜLENT DAĞ

### Personal Information

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### International Researcher IDs

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### Biography

Bulent Dag received the B.Sc. and M.Sc. degrees in electrical and electronics engineering from Middle East Technical University, Ankara, Turkey, in 1998 and 2002, respectively, and the Ph.D. degree in electrical–electronic engineering from Gazi University, Ankara, in 2015. He is currently an assistant professor at Gazi University Electrical-Electronics Engineering Department, Turkey. His research interests include electrical machinery and power electronics.

### Education Information

Doctorate, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, Turkey 2008 - 2015

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Electrical And Electronics Engineering, Turkey 1993 - 1998

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, GENERALIZED STABILITY ANALYSIS FOR INVERTER BASED MICROGRIDS, Gazi University, Mühendislik Fakültesi, Elektrik - Elektronik Mühendisliği, 2015

### Research Areas

Direct Energy Conversion and Energy Storage, Electrical Machine Theory and Design, Electric Motor Drivers, Power Converters

### Advising Theses

DAĞ B., YÜKSEK VERİMLİ ANAHTARLAMALI DC-DC DÖNÜŞTÜRÜCÜ TASARIMI, Postgraduate, M.CAN(Student), 2020

DAĞ B., Çift Yönlü Çalışabilen Temassız Güç Aktarım Sistemi Tasarımı ve Simülasyonu, Postgraduate, G.DUĞAN(Student), 2020

## 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)
- II. **Design and Implementation of GaN-Based Two Switch Flyback With Synchronous Rectification for New Space Applications**  
Gundogdu U. M., DAĞ B.  
Electric Power Components and Systems, 2024 (SCI-Expanded)
- III. **A simplified stability analysis method for LV inverter-based microgrids**  
Dag B., Aydemir M. T.  
JOURNAL OF MODERN POWER SYSTEMS AND CLEAN ENERGY, vol.7, no.3, pp.612-620, 2019 (SCI-Expanded)
- IV. **Static Modeling of Microgrids for Load Flow and Fault Analysis**  
Dag B., BOYNUEĞRİ A. R., Ates Y., Karakas A., Nadar A., Uzunoglu M.  
IEEE TRANSACTIONS ON POWER SYSTEMS, vol.32, no.3, pp.1990-2000, 2017 (SCI-Expanded)
- V. **Implementation of adaptive relay coordination in distribution systems including distributed generation**  
Ates Y., Uzunoglu M., Karakas A., BOYNUEĞRİ A. R., Nadar A., Dag B.  
JOURNAL OF CLEANER PRODUCTION, vol.112, pp.2697-2705, 2016 (SCI-Expanded)
- VI. **Calculation of parameters of single-phase PM motor for design optimization**  
Ertan H., Dag M., Capolino G.  
IEEE TRANSACTIONS ON ENERGY CONVERSION, vol.20, no.3, pp.538-548, 2005 (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)
- II. **Yeni Nesil Yüksek Gerilim Kazançlı ve İzoleli Z-Kaynak DA-DA Dönüştürücü için K-Faktör Tasarım Yöntemi ile Analog Denetleyici Tasarımı ve Uygulaması**  
TURAN E., DAĞ B., TAMYÜREK B., AYDEMİR M. T.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.9, no.2, 2021 (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

## Supported Projects

- Dağ B., Aydemir T., TAMYÜREK B., TUBITAK Project, EMPEDANS KAYNAKLI DA-DA DÖNÜŞTÜRÜCÜLÜ YÜKSEK GERİLİM DA GÜÇ KAYNAĞI TASARIMI, 2021 - 2024
- Dağ B., Martini L., FP7 Project, European Liaison on Electricity Committed Towards long-term Research Activities for Smart Grids, 2013 - 2018
- Dağ B., Soraci A., FP7 Project, Empowering Trans Mediterranean Renewable Energy Research Alliance for Europe 2020 Challenges (ETRERA 2020) , 2013 - 2016
- Dağ B., TUBITAK Project, GÜÇ ELEKTRONİĞİ ARAYÜZLÜ ALÇAK GERİLİM DAĞITIK ÜRETİM ŞEBEKELERİNİN

KORUNMASI, 2013 - 2016

## **Memberships / Tasks in Scientific Organizations**

IEEE, Member, 2022 - Continues, Turkey

## **Metrics**

Publication: 10

Citation (WoS): 84

Citation (Scopus): 96

H-Index (WoS): 3

H-Index (Scopus): 3

## **Non Academic Experience**

TÜBİTAK