

## Res. Asst. FERHAT BODUR

### Personal Information

**Office Phone:** [+90 312 202 8800](tel:+903122028800) Extension: 28800

**Email:** ferhatbodur@gazi.edu.tr

**Web:** <https://avesis.gazi.edu.tr/ferhatbodur>

**Address:** Gazi Üniversitesi Teknoloji Fakültesi Elektrik-Elektronik Müh. Böl. B Binası No:09, Teknikokullar- Yenimahalle / Ankara

### International Researcher IDs

ScholarID: AyH66w0AAAAJ

ORCID: 0000-0002-5748-1349

Publons / Web Of Science ResearcherID: ACW-5290-2022

ScopusID: 57300792900

Yoksis Researcher ID: 321660

### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Turkey 2022 - Continues

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (YI) (Tezli), Turkey 2019 - 2022

Undergraduate, Firat University, Faculty Of Technology, Department Of Electrical And Electronics Engineering, Turkey 2012 - 2017

### Dissertations

Postgraduate, Second Order Sliding Mode Controller Design and Application for Instability Problem of Constant Power Loads in DC Microgrid, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2022

### Research Areas

Electrical and Electronics Engineering

### Academic Titles / Tasks

Research Assistant, Gazi University, Teknoloji Fakültesi, Elektrik - Elektronik Mühendisliği, 2020 - Continues

### Courses

Kontrol Sistemleri-II Lab, Undergraduate, 2022 - 2023

Elektrik Makinaları Lab-I, Undergraduate, 2023 - 2024

Kontrol Sistemler Lab.-I, Undergraduate, 2022 - 2023

Elektrik Makinaları Lab.II, Undergraduate, 2022 - 2023

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

- I. **Super twisting controller using proportional integral-based sliding surface for buck converter with disturbances**  
BODUR F., KAPLAN O.  
Asian Journal of Control, 2024 (SCI-Expanded)
- II. **Second-order sliding mode controller design of buck converter with constant power load**  
Kaplan O., Bodur F.  
INTERNATIONAL JOURNAL OF CONTROL, vol.96, no.5, pp.1210-1226, 2023 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Super Twisting Algorithm Based Sliding Mode Controller for Buck Converter Feeding Constant Power Load**  
Kaplan O., Bodur F.  
International Journal of Renewable Energy Research, vol.12, no.1, pp.134-145, 2022 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Fixed-Time Reaching Law-Based Sliding Mode Control for PMSM Speed Control**  
Bodur F., Kaplan O.  
2024 12th International Conference on Smart Grid (icSmartGrid), Setúbal, Portugal, 27 May - 29 August 2024, pp.1-6
- II. **A Novel Sliding Mode Control Based on Super Twisting Reaching Law for PMSM Speed Controller with Fixed-Time Disturbance Observer**  
Bodur F., Kaplan O.  
23 12th International Conference on Renewable Energy Research and Applications (ICRERA), Oshawa, Canada, 29 August - 01 September 2023, pp.1-6
- III. **Fixed-Time Sliding Mode Control for DC-DC Converters with both Matched and Mismatched Disturbances Based on Disturbance Observer**  
Bodur F., Kaplan O.  
2023 12th International Conference on Renewable Energy Research and Applications (ICRERA), Oshawa, Canada, 29 August - 01 September 2023, pp.1-6
- IV. **Super Twisting Observer based Second Order Sliding Mode Control for Power Converter with Disturbance**  
Bodur F., Kaplan O.  
2023 11th International Conference on Smart Grid (icSmartGrid), Paris, France, 4 - 07 July 2023, pp.1-6
- V. **Integral Sliding Mode Control with Improved Reaching Law for Brushless DC Motor Speed Control**  
Bodur F., Kaplan O.  
11th International Conference on Smart Grid (icSmartGrid), Paris, France, 4 - 07 July 2023, pp.1-7
- VI. **Second-Order Sliding Mode Control Algorithms in DC/DC Buck Converter**  
BODUR F., KAPLAN O.  
2022 10th International Conference on Smart Grid (icSmartGrid), İstanbul, Turkey, 27 June 2022, pp.380-386
- VII. **Super twisting algorithm based sliding mode controller for buck converter with constant power load**  
KAPLAN O., BODUR F.  
9th International Conference on Smart Grid, icSmartGrid 2021, Virtual, Setubal, Portugal, 29 June - 01 July 2021, pp.137-142
- VIII. **The Comparing of Linear Damping Methods for Constant Power Loads and Stability Analysis**  
BODUR F., KAPLAN O., ÖZTÜRK N.  
10th IEEE International Conference on Renewable Energy Research and Applications, ICRERA 2021, İstanbul, Turkey, 26 - 29 September 2021, pp.294-300

## Supported Projects

Bodur F., KAPLAN O., TÜBİTAK International Bilateral Joint Cooperation Program Project, Entegre Algılama ve İletişim Teknolojisine Dayalı Arama ve Kurtarma İHA'ları, 2024 - 2026

Ünal K., Bal G., Kaplan O., Yenipınar B., Çelik E., Ocak C., Bekiroğlu E., Bodur F., Öztürk N., Project Supported by Higher Education Institutions, Elektrikli Araçlar ve Güç sistemleri için Kompakt Yapılı Menzil Arttırıcı, 2024 - 2025

## Metrics

Publication: 11

Citation (WoS): 13

Citation (Scopus): 34

H-Index (WoS): 3

H-Index (Scopus): 4