

## Assoc. Prof. Nihan ALTINTAŞ

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAZ-7163-2020

ScopusID: 55362749300

Yoksis Researcher ID: 173979

### Education Information

Doctorate, Yildiz Technical University, Elektrik Elektronik Fakültesi, Elektrik Mühendisliği, Turkey 2007 - 2012

Postgraduate, Yildiz Technical University, Elektrik Elektronik Fakültesi, Elektrik Mühendisliği Bölümü, Turkey 2004 - 2007

Undergraduate, Yildiz Technical University, Elektrik Elektronik Fakültesi, Elektrik Mühendisliği, Turkey 2000 - 2004

### Research Areas

Electrical and Electronics Engineering, Power Electronics, Power Converters, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2024 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2018 - 2024

Assistant Professor, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2015 - 2018

Assistant Professor, University of Wisconsin - Madison, 2015 - 2016

Research Assistant, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2005 - 2015

### Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, Faculty Of Electrical & Electronics, Electrical Engineering Department, 2022 - 2023

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

1. A Novel Non-Resonant Full-Bridge Multi-Output Topology for Domestic Induction Heating

## Applications

Aslan S., Oktay U., Altıntaş N.

ELECTRONICS (Basel), vol.14, no.3, pp.596-618, 2025 (SCI-Expanded)

- II. **Performance evaluation of pan position methods in domestic induction cooktops**  
Altıntaş N., Ozturk M., Oktay U.  
Electrical Engineering, vol.105, no.5, pp.2559-2571, 2023 (SCI-Expanded)
- III. **A Comparative Evaluation of Wide-Bandgap Semiconductors for High-Performance Domestic Induction Heating**  
Aslan S., Ozturk M., ALTINTAŞ N.  
Energies, vol.16, no.10, 2023 (SCI-Expanded)
- IV. **Adaptation of Inductive Power Transfer to Small Household Appliances That Can Operate on Induction Heating Cooktops: Wireless Electric Kettle**  
Sezer C., ALTINTAŞ N.  
Energies, vol.16, no.8, 2023 (SCI-Expanded)
- V. **Multi-output AC-AC converter for domestic induction heating**  
Ozturk M., ALTINTAŞ N.  
ELECTRICAL ENGINEERING, vol.105, no.1, pp.297-316, 2023 (SCI-Expanded)
- VI. **A Novel Single Phase Soft Switched PFC Converter**  
Altintas N.  
JOURNAL OF ELECTRICAL ENGINEERING & TECHNOLOGY, vol.9, no.5, pp.1592-1601, 2014 (SCI-Expanded)
- VII. **A Novel ZVT-ZCT-PWM Boost Converter**  
Altıntaş N., Bakan A. F., Aksoy I.  
IEEE TRANSACTIONS ON POWER ELECTRONICS, vol.29, pp.256-265, 2014 (SCI-Expanded)
- VIII. **An Improved PSFB PWM DC-DC Converter for High-Power and Frequency Applications**  
Bakan A. F., Altintas N., Aksoy I.  
IEEE TRANSACTIONS ON POWER ELECTRONICS, vol.28, pp.64-74, 2013 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Analysis of the measured and simulated performance data of a grid-connected 1036,8 kwp photovoltaic solar power plant in Elazığ**  
Tanış Z., Altintas N.  
EMO Bilimsel Dergi, vol.13, no.2, pp.71-80, 2023 (Peer-Reviewed Journal)
- II. **Çok Fazlı Mikrodenetleyici Tabanlı Senkron Düşürücü Dönüştürücüde Çalışma Modlarının Verime Etkisinin İncelenmesi**  
YENER B., ALTINTAŞ N.  
Mühendislik Bilimleri ve Tasarım Dergisi, vol.11, no.1, pp.254-263, 2023 (Peer-Reviewed Journal)
- III. **Bataryalı PV Sistemlerde Maksimum Güç Noktası Takip Yöntemlerinin Karşılaştırılması**  
ALTINTAŞ N., DEMİRCİ A., TERCAN S. M.  
Avrupa Bilim ve Teknoloji Dergisi, no.21, pp.369-377, 2021 (Peer-Reviewed Journal)
- IV. **Dalgıç Pompa Elektrik Motorunun İyileştirilmesi**  
Altıntaş N., Samur K.  
Harran Üniversitesi Mühendislik Dergisi, vol.5, no.2, pp.82-93, 2020 (Peer-Reviewed Journal)

## Papers Published in Refereed Scientific Meetings

- I. **Modeling of WPT System for Small Home Appliances**  
Sezer C., Odabas G., Sinirlioglu S., Kaya B., ALTINTAŞ N.  
8th International Conference on Electrical and Electronics Engineering (ICEEE), Antalya, Turkey, 9 - 11 April 2021,

pp.243-247

- II. **A Comparative Study on Power MOSFET Reliability and Failure Modes**  
Gözütok A., Altıntaş N., Aydoğan B., Meşe E., Tosunoğlu Z.  
18th International Symposium INFOTEH-JAHORINA (INFOTEH), Sarajevo, Bosnia And Herzegovina, 20 - 22 March 2019, pp.1-5
- III. **Comparison of Induction Cooker Power Converters**  
Altıntaş N., Öztürk M., Aslan S.  
CEIT 2018 6th International Conference on Control Engineering Information Technology, İstanbul, Turkey, 25 - 27 October 2018, pp.579-584
- IV. **Elazığ'da Yer Alan 3.153,6kwp Şebekeye Bağlı Fotovoltaic Güneş Enerjisi Santralinin Performans Analizi**  
Tanış Z., Altıntaş N.  
Uluslar arası Fen ve Mühendislik Kongresi, Girne, Cyprus (Kktc), 4 - 06 September 2018, pp.1000-1008
- V. **A comparative study of SiC and Si power devices in induction cookers**  
Öztürk M., Altıntaş N., Aslan S.  
5th International Conference on Electrical and Electronic Engineering, İstanbul, Turkey, 3 - 05 May 2018, pp.1000-1008
- VI. **Ev Tipi İndüksiyon Ocaklar İçin Çok Bobinli AC-AC Dönüştürücü Tasarımı**  
Öztürk M., Altıntaş N.  
EEMKON, İstanbul, Turkey, 16 - 18 November 2017, pp.1000-10008
- VII. **A Soft Switching Single Phase Power Factor Correction AC-DC Boost Converter with Passive Snubber**  
Ting N. S., ALTINTAŞ N.  
4th International Conference on Electrical and Electronic Engineering (ICEEE), Ankara, Turkey, 8 - 10 April 2017, pp.13-17
- VIII. **Performance evaluations of capacitor-switched PSFB converter with SiC MOSFETs**  
Altıntaş N., HAN D., LI Y., SARLIOĞLU B.  
42nd Conference of the Industrial Electronics Society, IECON 2016, Florence, Italy, 24 - 27 October 2016, pp.2492-2496
- IX. **Design of high-speed toroidal winding surface PM machine with SiC-based inverters**  
LI Y., HAN D., Altıntaş N., SARLIOĞLU B.  
22nd International Conference on Electrical Machines, ICEM 2016, Lausanne, Switzerland, 4 - 07 September 2016, pp.1559-1565
- X. **ZVZCT PWM Boost DC-DC Converter**  
AKSOY İ., BODUR H., ALTINTAŞ N.  
17th International Conference on Electrical and Electronics Engineering (ICEEE 2015, WASET), Paris, France, 27 August 2015, pp.1-5
- XI. **Comparison of The Full Bridge PSPWM DC-DC Converters**  
AKSOY İ., ALTINTAŞ N., BODUR H.  
Society for Electronics, Telecommunications, Automation, Informatics Conference 2009 (ETAI2009), 01 September 2009
- XII. **An Experimental Investigation of Switching Losses of the IGBT in PSPWM DC-DC Converters Depending on the Parallel Snubber Capacitor**  
AKSOY İ., ALTINTAŞ N., BODUR H.  
Society for Electronics, Telecommunications, Automation, Informatics Conference 2009 (ETAI2009), 01 September 2009
- XIII. **IGBT Tabanlı Tam Köprü PSPWM DC-DC Dönüştürücüde Bastırma Kondansatörlerinin Belirlenmesi**  
Altıntaş N., Aksoy İ., Bodur H.  
Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 26 - 30 November 2008, pp.331-335
- XIV. **Tam Köprü PSPWM DC-DC Dönüştürücülerin Karşılaştırılması**  
Bodur H., Aksoy İ., Altıntaş N.  
Elektrik-Elektronik ve Bilgisayar Mühendisliği Sempozyumu, Bursa, Turkey, 26 - 30 November 2008, pp.366-370

## Supported Projects

- Düşmez S., Kocabaş D. A., Gülbahçe M. O., Altıntaş N., TUBITAK Project, Bidirectional AC/DC Converters &lt;10kW with Best-in Class Power Density, 2020 - 2023
- Bodur H., Bakan A. F., Altıntaş N., TUBITAK Project, Design and Implementation of a New Modular and Isolated Active Soft Switching Cell for Multi-Switch Converters, 2020 - 2022
- Aksoy I., Altıntaş N., Bakan A. F., Industrial Thesis Project, Üç Fazlı Kaynak Makinaları için Yumuşak Anahtarlama İzoleli PWM DC-DC Dönüştürücü Geliştirilmesi, 2010 - 2012
- Bodur H., Aksoy I., Altıntaş N., Bakan A. F., TUBITAK Project, Yeni bir Yumuşak Anahtarlama PWM DC-DC Dönüştürücünün Geliştirilmesi ve Ark Kaynak Makinalarına Uygulanması, 2007 - 2009

## Metrics

- Publication: 27
- Citation (WoS): 106
- Citation (Scopus): 121
- H-Index (WoS): 4
- H-Index (Scopus): 4

## Non Academic Experience

- Fatih Sultan Mehmet Vakıf Üniversitesi, 40a maddesine göre görevlendirme (misafir öğretim üyesi)
- Milli Savunma Üniversitesi - Hava Harp Okulu, 40c maddesine göre görevlendirme (misafir öğretim üyesi)
- Milli Savunma Üniversitesi - Hava Harp Okulu, 40c maddesine göre görevlendirme (misafir öğretim üyesi)
- Milli Savunma Üniversitesi - Hava Harp Okulu, 40c maddesine göre görevlendirme (misafir öğretim üyesi)
- University of Wisconsin-Madison, Doktora Sonrası Araştırmacı